TOSHIBA



Owner's Manual

Integrated High Definition DLP® Projection Television COLOR STREAM® HD THEATERWIDE HD PROPERTY SRS() HDMI (DT/

57HM117 65HM117

For an overview of steps for setting up your new TV, see page 10.

Note: To display a High Definition picture, the TV must be receiving a High Definition signal (such as an over-the-air High Definition TV broadcast, a High Definition digital cable program, or a High Definition digital satellite program). For details, please contact your TV antenna installer, cable provider, or satellite provider.

Note: If the TV is powered off and then quickly on again when the lamp unit is hot, it may take several minutes for the picture to appear on-screen. This is a property of DLP® TV lamp technology and is NOT a sign of malfunction. For details, see "IMPORTANT NOTICE ABOUT HOT LAMP RESTART" on page 6.

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Owner's Record

The model number and serial number are on the back of your TV. Record these numbers in the spaces below. Refer to these numbers whenever you communicate with your Toshiba dealer about this TV.

Model number:

Serial number:

(YC/N) VX1A00046100

Dear Customer,

Thank you for purchasing this Toshiba TV. This manual will help you use the many exciting features of your new TV. **Before** operating the TV, please read this manual completely, and keep it nearby for future reference.

Safety Precautions

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.



WARNING: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO

QUALIFIED SERVICE PERSONNEL. (This does not apply to "Lamp unit replacement and care" in Chapter 9.)

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The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Lamp Unit Replacement **CAUTION: HOT SURFACE!** Touching the lamp before it has cooled will result in severe burns. ALLOW THE LAMP TO COOL FOR AT LEAST ONE (1) HOUR BEFORE REPLACING IT. The lamp in this product has a limited service life. The length of service life varies depending on product use and user settings. If you use the lamp beyond its service life: vou may notice a reduction in the colors and/or brightness of the picture, at which time you should replace the lamp unit: and • the strength of the quartz glass in the lamp will be reduced and the lamp may rupture. If the lamp ruptures, the TV will not operate until the lamp unit is replaced. Dispose of the used lamp unit by the approved method for your area. See "Lamp unit replacement and care" in Chapter 9. Note: The lamp unit contains mercury. Disposal of mercury may be regulated due to environmental considerations. For disposal or recycling information, contact your local authorities or the Electronic Industries Alliance (www.eiae.org).



CAUTION: This television is for use only with the supplied Toshiba stand (r page 66). Use with other carts or stands is capable of resulting in instability, causing possible injury.

NOTE TO CATV INSTALLERS IN THE U.S.A.

This is a reminder to call the CATV system installer's attention to Article 820-40 of the U.S. NEC, which provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical. For additional antenna grounding information, see items 28 and 29 on page 4.

Child Safety

It Makes A Difference Where Your TV Stands



Congratulations on your purchase!

As you enjoy your new TV, keep these safety tips in mind:

The Issue

- □ If you are like most consumers, you have a TV in your home. Many homes, in fact, have more than one TV.
- The home theater entertainment experience is a growing trend, and larger TVs are popular purchases; however, they are not always supported on the proper TV stands.
- Sometimes TVs are improperly secured or inappropriately situated on dressers, bookcases, shelves, desks, audio speakers, chests, or carts. As a result, TVs may fall over, causing unnecessary injury.

Toshiba Cares!



 The consumer electronics industry is committed to making home entertainment enjoyable and safe.
 The Consumer Electronics Association

The Consumer Electronics Association formed the Home Entertainment Support Safety Committee, comprised of TV and consumer electronics furniture manufacturers, to advocate children's safety and educate consumers and their families about television safety.

Tune Into Safety

One size does NOT fit all! Use appropriate furniture large enough to support the weight of your TV (and other electronic components).

- Use appropriate angle braces, straps, and anchors to secure your furniture to the wall (but never screw anything directly into the TV).
- □ Carefully read and understand the other enclosed instructions for proper use of this product.
- Do not allow children to climb on or play with furniture and TVs.
- Avoid placing any item on top of your TV (such as a VCR, remote control, or toy) that a curious child may reach for.
- $\hfill\square$ Remember that children can become excited while watching a program and can potentially push or pull a TV over.
- Share our safety message about this hidden hazard of the home with your family and friends. Thank you!



Important Safety Instructions

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.
- 6) Clean only with dry cloth.
- 7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- Do not install near any heat sources such as radiators, 8) heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9) Do not defeat the safety purpose of Wide blade the polarized or grounding type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third

prong are provided for your safety. If the provided plug

does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

10) Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.



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- 11) Only use attachments/accessories specified by the manufacturer.
- 12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.



- 13) Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

Additional Safety Precautions

- 14a) Item 14 does not apply to "Lamp unit replacement and care" in Chapter 9.
- 14b) CAUTION: If the TV is dropped and the cabinet or enclosure surface has been damaged or the TV does not operate normally, take the following precautions:
 - ALWAYS turn off the TV and unplug the power cord to avoid possible electric shock or fire.
 - To prevent personal injury, never handle the damaged television.
 - ALWAYS contact a service technician to inspect the TV any time it has been damaged or dropped.

15) CAUTION:

- · To reduce the risk of electric shock, do not use the polarized plug with an extension cord, receptacle, or other outlet unless the blades can be inserted completely to prevent blade exposure.
- To prevent electric shock, match wide blade of plug to wide slot; fully insert.
- WARNING: This product contains a lamp to project 16) the picture, and requires special safety precautions:
 - See Chapter 9 for instructions on lamp unit replacement and care.
 - DO NOT attempt to service this product except as specified in the "Lamp unit replacement and care" section in Chapter 9. The only user-serviceable item in this product is the lamp unit.

17) WARNING:

To prevent the spread of fire, keep candles or other open flames away from this product at all times.

Installation, Care, and Service

Installation

Follow these recommendations and precautions and heed all warnings when installing your TV:

18) Never modify this equipment. Changes or modifications may void: a) the warranty, and b) the user's authority to operate this equipment under the rules of the Federal Communications Commission.



SERIOUS PERSONAL INJURY, DEATH, OR **EQUIPMENT DAMAGE!**

DANGER: RISK OF



Never place the TV on an unstable cart, stand, or table. The TV may fall, causing serious personal injury, death, or serious damage to the TV.

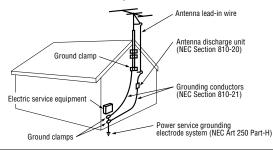
- 20) Never place or store the TV in direct sunlight; areas subject to excessive dust or vibration; or locations with temperatures at or below 41°F (5°C). See "Specifications" section on page 66 on operating conditions.
- Always place the TV on the TV stand provided with the TV 21) or on a sturdy, level, stable surface that can safely support the size and weight of the unit. See "Notice of possible TV stand instability" and "Child Safety" on page 2.
- The apparatus shall not be exposed to dripping or 22) splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.
- 23) Always place the back of the television at least four (4) inches away from any vertical surface (such as a wall) to allow proper ventilation.



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HM117 (E/F) Web 213:27

- 24) Never block or cover the slots or openings in the TV cabinet back, bottom, and sides. Never place the TV:
 - on a bed, sofa, rug, or similar surface;
 - · too close to drapes, curtains, or walls; or
 - in a confined space such as a bookcase, built-in cabinet, or any other place with poor ventilation.
 The slots and openings are provided to protect the TV from overheating and to help maintain reliable operation of the TV.
- 25) Never allow anything to rest on or roll over the power cord, and never place the TV where the power cord is subject to wear or abuse.
- 26) Never overload wall outlets and extension cords.
- 27) Always operate this equipment from a 120 VAC, 60 Hz power source only.
- 28) Always make sure the antenna system is properly grounded to provide adequate protection against voltage surges and built-up static charges (see Section 810 of the National Electric Code).



29)

DANGER: RISK OF SERIOUS PERSONAL INJURY OR DEATH!

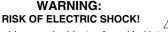
- Use extreme care to make sure you are never in a position where your body (or any item you are in contact with, such as a ladder or screwdriver) can accidentally touch overhead power lines. Never locate the antenna near overhead power lines or other electrical circuits.
- Never attempt to install any of the following during lightning activity: a) an antenna system; or b) cables, wires, or any home theater component connected to an antenna or phone system.

Care

For better performance and safer operation of your TOSHIBA TV, follow these recommendations and precautions:

- 30) Always sit approximately 10–25 feet away from the TV and as directly in front of it as possible. The picture can appear dull if you sit too far to the left or right of the TV, or if sunlight or room lights reflect on the screen. Turn the TV off to check for reflections on the screen, and then remove the source of reflections while viewing the TV.
- 31) Always unplug the TV before cleaning. Never use liquid or aerosol cleaners. Clean only with a soft, dry cloth. Do not spray volatile compounds, such as insecticide, on the cabinet. This may discolor or damage the cabinet.

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Never spill liquids or push objects of any kind into the TV cabinet slots.

- 33) If the air temperature rises suddenly (for example, when the TV is first delivered), condensation may form on the lenses. This can make the picture appear distorted or the color appear faded. If this happens, turn off the TV for 6 to 7 hours to allow the condensation to evaporate.
- 34) For added protection of your TV from lightning and power surges, always unplug the power cord and disconnect the antenna from the TV if you leave the TV unattended or unused for long periods of time.
- 35) During normal use, the TV may make occasional snapping or popping sounds. This is normal, especially when the unit is being turned on or off. If these sounds become frequent or continuous, unplug the power cord and contact a Toshiba Authorized Service Center.
- 36) Special care for DLP® (Digital Light Processing) units:
 - The lamp unit in this product has a limited service life. The length of service life varies depending on product use or user settings. If you use the lamp beyond its service life:
 - you may notice a reduction in the colors and/or brightness of the picture, at which time you should replace the lamp unit; and
 - the strength of the quartz glass in the lamp will be reduced and the lamp may rupture. If the lamp ruptures, the TV will not operate until the lamp unit is replaced. See "Lamp unit replacement and care" in Chapter 9.
 - Dispose of the used lamp unit by the approved method for your area.



The lamp unit contains mercury. Disposal of mercury may be regulated due to

environmental considerations. For disposal or recycling information, please contact your local authorities or the Electronic Industries Alliance (www.eiae.org).

Service



WARNING: RISK OF ELECTRIC SHOCK!

Never attempt to service the TV yourself, except as specified in the "Lamp unit replacement and care" section in Chapter 9. Opening and removing the covers may expose you to dangerous voltage or other hazards. Failure to follow this WARNING may result in death or serious injury. Refer all servicing not specified in this manual to a Toshiba Authorized Service Center.

38) If you have the TV serviced:

- Ask the service technician to use only replacement parts specified by the manufacturer.
- Upon completion of service, ask the service technician to perform routine safety checks to determine that the TV is in safe operating condition.

DLP® and the DLP logo are registered trademarks of Texas Instruments. 39) When the TV reaches the end of its useful life, ask a qualified service technician to properly dispose of the TV. *Note:* The lamp unit contains mercury. Disposal of

mercury may be regulated due to environmental considerations. Dispose of the used lamp unit by the approved method for your area.

For disposal or recycling information, please contact your local authorities or the Electronic Industries Alliance (www.eiae.org).

FCC Declaration of Conformity Compliance Statement (Part 15):

The **Toshiba 57HM117 and 65HM117 Televisions** comply with Part 15 of the FCC rules.

Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The party responsible for compliance to these rules is: Toshiba America Consumer Products, L.L.C. 82 Totowa Rd. Wayne, NJ 07470. Ph: 1-800-631-3811

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by removing and applying power to the equipment, the user is encouraged to try to correct the interference by one or more of the following measures:

- · Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution: Changes or modifications to this equipment not expressly approved by Toshiba could void the user's authority to operate this equipment.

Important notes about your DLP® projection TV

- The light source for this TV is a projection lamp unit with a limited service life. When the lamp wears out, the picture may become dark or black or the lamp may fail, at which time you must replace the lamp unit (rs "Lamp unit replacement and care" on pages 63–65).
- 2) When the lamp mode is set to Low Power, every time the TV is powered on, the lamp will initially be in High Bright mode but will switch to Low Power mode after a short period of time. You may notice a change in screen brightness when this happens. This is normal and is not a sign of malfunction (res page 57 for details).
- Every time the TV is powered on, it may take several minutes for the picture to obtain full brightness (rss "IMPORTANT NOTICE ABOUT HOT LAMP RESTART," at right).
- 4) The TV's display is manufactured using an extremely high level of precision technology; however, an occasional pixel (dot of light) may show constantly on the screen. This is a structural property of DLP[®] (Digital Light Processing[®]) technology and is not a sign of malfunction. Such pixels are not visible when the picture is viewed from a normal viewing distance.
- 5) Always sit approximately 10–25 feet away from the TV and as directly in front of it as possible. The picture quality may be affected by your viewing position and length of viewing time. If you sit too closely to the TV for too long, you may suffer from eye fatigue. See item 30 under "Care" on page 4.
- 6) Depending on the media you are viewing, it is possible, although unlikely, that a limited number of viewers may see a "rainbow effect" on the screen, which can, in rare instances, result in eye fatigue. This is a rare occurrence related to DLP[®] technology and is not a sign of TV malfunction.



This TV contains several cooling fans to moderate the internal temperature. You may be able to hear the fans for several minutes after the TV is turned off. This is a function of the Power-On Mode

feature and is not a sign of TV malfunction. You can set the Power-On Mode feature to stop the fans as soon as the TV is powered off. See "Setting the Power-On Mode feature" (I page 35).

- 8) The yellow and blue LED lights at the bottom center of the TV front indicate your TV's current status. If either light flashes, see "LED indications" (ISS page 62).
- 9) Every time the TV power cord is plugged in, the yellow LED will blink until the TV enters standby mode (plugged in but not powered on). This is normal and is not a sign of malfunction.

"Voice announce" feature

When certain non-standard conditions occur, the LEDs on the TV will blink and the TV will play a recorded "voice announcement" describing the condition (see the LED indication table on page 62 for the specific conditions that include a voice announcement).

To repeat the voice announcement and hear additional information, press the MENU button on the TV while the LEDs are blinking.

IMPORTANT NOTICE ABOUT HOT LAMP RESTART

When the TV has been powered on long enough for the lamp unit to get hot, it may take several minutes for the picture to appear in the following situations:

- When the Power-On Mode feature is set to Power-Saving and you turn the TV off and then on again within a few minutes; or
- If the TV is on when a short-term power failure, power surge, or other similar power failure occurs, such that the TV loses and regains power within a few minutes.

This is a property of DLP^{\otimes} TV lamp technology and is NOT a sign of malfunction.

If this occurs, the yellow LED on the TV front panel will blink (and the blue LED will be lit solid) until the TV is finished restarting the lamp and the normal picture appears. If both LEDs are blinking, you will need to turn the TV off and then on again to restart the lamp.

Trademark Information

- Manufactured under license from Dolby Laboratories.
 Dolby and the double-D symbol are registered trademarks of Dolby Laboratories.
- HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.
- DLP[®] and the DLP logo are registered trademarks of Texas Instruments.

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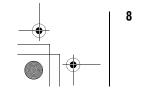
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NOTICE OF POSSIBLE TV STAND INSTABILITY DANGER: RISK OF SERIOUS PERSONAL INJURY OR DEATH! Use this TV only with the supplied TOSHIBA TV stand. Use with other stands may result in instability, causing possible injury or death.

Welcome to Toshiba

Thank you for purchasing this Toshiba TV, one of the most innovative DLP® projection TVs on the market. This digital television is capable of receiving analog basic, digital basic and digital premium cable television programming by direct connection to a cable system providing such programming. A security card provided by your cable operator is required to view encrypted digital programming. Certain advanced and interactive digital cable services such as video-on-demand, a cable operator's enhanced program guide and data-enhanced television services may require the use of a set-top box. For more information call your local cable operator.

Features of your new TV

The following are just a few of the many exciting features of your new Toshiba widescreen, integrated HD, DLP[®] projection TV:

- 1080p output resolution
- Integrated digital tuning (8VSB ATSC and QAM) eliminates the need for a separate digital converter set-top box (in most cases).
- **Three HDMI**[™] digital, high-definition multimedia interfaces 1080p input support (ISS page 19).
- Two sets of ColorStream[®] HD high-resolution component video inputs (ps page 16).
- SRS WOW[™] audio technologies (r page 59).
- Digital Audio Out optical audio connection with Dolby[®] Digital optical output format (rsp page 48).
- **CableClear®** digital picture noise reduction (**I**SF page 58).
- PC IN (Analog RGB) computer terminal (ISP page 21).
- IR OUT infrared terminal using the IR blaster cable for IR pass-through device control (1) page 13).
- Channel Labeling allows you to put the Call Letters (e.g. ABC, HBO, etc.) on the screen along with the station numbers, so you always know what you're watching (ISP page 33).

Overview of steps for installing, setting up, and using your new TV

Follow these steps to set up your TV and begin using its many exciting features.

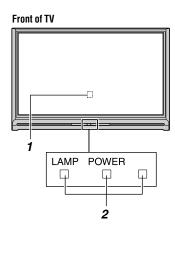
- Carefully read the important safety, installation, care, and service information. Keep this manual for future reference.
- **2** Observe the following when choosing a location for the TV:
 - Read "Important notes about your DLP[®] projection TV" (rs page 6).
 - Place the TV on the applicable optional TV stand listed in the "Specifications" section (if available for this TV model) or on a sturdy, level, stable surface that can safely support the size and weight of the unit.
 - Place the TV in a location where light does not reflect on the screen.
 - Place the TV far enough from walls and other objects to allow proper ventilation. Inadequate ventilation may cause overheating, which will damage the TV. THIS TYPE OF DAMAGE IS NOT COVERED UNDER THE TOSHIBA WARRANTY.
- **3** Do not plug in any power cords until AFTER you have connected all cables and devices to your TV.
- 4 BEFORE connecting cables or devices to the TV, learn the functions of the TV's connections and controls (n pages 11–12).
- 5 Connect your other electronic device(s) to the TV (rs pages 13-21).
- 6 Install the batteries in the remote control (r page 22).
- **7** See "Learning about the remote control" (**I** page 23) for an overview of the buttons on the remote control.
- **8** Program the remote control to operate your other device(s) (**1** g pages 24–28).
- **9** AFTER connecting all cables and devices, plug in the power cords for your TV and other devices.

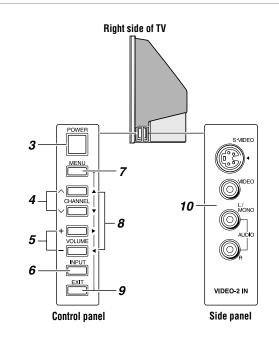
10 After you plug in the TV power cord, the yellow LED (on the TV front) will blink 3 times. Wait several seconds until the yellow LED stops blinking and then press ^{POWER} on the TV or remote control.

See "LED indications" (I page 62).

- **11** See "Menu layout and navigation" for a quick overview of navigating the TV's menu system (**1**3 page 29).
- **12** Program channels into the TV's channel memory (**1S** page 32).
- **13** For details on using the TV's features, see Chapters 6 and 7.
- **14** For help, refer to the Troubleshooting Guide, Chapter 8.
- **15** For lamp unit replacement instructions, see Chapter 9.
- **16** For technical specifications and warranty information, see Chapter 9.
- **17** Enjoy your new TV!

TV front and side panel controls and connections





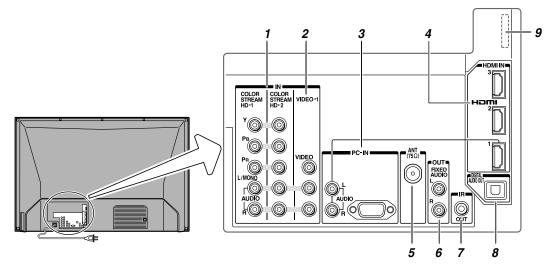
- **1 Remote sensor** (behind the screen) Point the remote control toward this area of the TV screen (ISF "Remote control effective range" on page 22).
- 2 Blue, Yellow, and Green/Red See "LED indications" on page 62 for additional information.
- 3 POWER Press to turn the TV on and off. If the TV stops responding to the controls on the remote control or TV control panel and you cannot turn off the TV, press and hold the POWER button on the TV control panel for 5 or more seconds to reset the TV.
- **4 CHANNEL** *∧∨* When no menu is on-screen, these buttons change the channel (programmed channels only; **r***⊗* page 32).
- 5 VOLUME + — These buttons adjust the volume level.
- 6 INPUT Repeatedly press to change the source you are viewing (ANT, VIDEO 1, VIDEO 2, ColorStream HD1, ColorStream HD2, HDMI 1, HDMI 2, HDMI 3, PC).
- 7 MENU (ENTER) Press to access the menu system (ISP pages 29–30). When a menu is on-screen, the MENU button on the TV's control panel functions as the ENTER button.
- 8 ARROWS ▲▼◀▶ When a menu is on-screen, these buttons function as up/down/left/right menu navigation buttons.

- **9 EXIT** Press to instantly close an on-screen menu.
- 10 VIDEO-2 IN The side panel A/V connections are referred to as "VIDEO 2" and include standard A/V inputs plus an optional S-video input.

Note: Standard (composite) video and S-video cables carry only video information; separate audio cables are required for a complete connection.

TV back panel connections

For an explanation of cable types and connections, see pages 13-21.



1 ColorStream[®] HD-1 and ColorStream[®] HD-2 — Two sets of ColorStream[®] high-definition component video inputs (with standard stereo audio inputs) for connecting devices with component video output, such as a Toshiba DVD player with ColorStream[®].

Note: Component video cables carry only video information; separate audio cables are required for a complete connection.

- 2 VIDEO-1 IN Standard (composite) video and standard audio inputs for connecting devices with composite video output.
- 3 PC IN For use when connecting a personal computer. PC audio input terminals are shared with HDMI-1 analog audio input terminals, and their use can be configured in the Audio Setup menu (1) page 54).
- 4 HDMI[™] IN High-Definition Multimedia Interface input receives digital audio and uncompressed digital video from an HDMI device or uncompressed digital video from a DVI device. Also see item 3. HDMI connection is necessary to receive 1080p signals.
- **5 ANT** Antenna input that supports analog (NTSC) and digital (ATSC) off-air antenna signals and analog and digital Cable TV (QAM) signals.
- 6 Fixed Audio OUT Analog audio outputs for connecting an audio amplifier.

- 7 IR OUT For controlling infrared remote-controlled devices through the TV. You can connect up to two devices with an IR blaster cable, and then control the devices using the TV's IR pass-through features.
- 8 Digital Audio OUT Optical audio output in Dolby Digital or PCM (pulse-code modulation) format for connecting an external Dolby Digital decoder, amplifier, A/V receiver, or home theater system with optical audio input.
- **9** Service port (behind the cover) For service use only. Used for updating the television's firmware.

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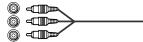
Overview of cable types

Coaxial (F-type) cable

•

Coaxial (F-type) cable is used for connecting your antenna, cable TV service, and/or cable converter box to the **ANT** input on your TV.

Standard A/V cables (red/white/yellow)



Standard A/V cables (composite video) usually come in sets of three, and are for use with video devices with analog audio and composite video output. These cables (and the related inputs on your TV) are typically color-coded according to use: yellow for video, red for stereo right audio, and white for stereo left (or mono) audio.

S-video cable

() - D

S-video cable is for use with video devices with S-video output. Separate audio cables are required for a complete connection.

Note: An S-video cable provides better picture performance than a composite video cable. If you connect an S-video cable, be sure to disconnect the standard (composite) video cable or the picture performance will be unacceptable.

Component video cables (red/green/blue)



Component video cables come in sets of three and are for use with video devices with component video output. (ColorStream[®] is Toshiba's brand of component video.) These cables are typically color-coded red, green, and blue. Separate

audio cables are required for a complete connection. **Note:** Component video cables provide better picture performance than a standard (composite) video or S-video cable.

HDMI[™] cable



HDMI (High-Definition Multimedia Interface) cable is for use with devices with an HDMI output. An HDMI cable delivers digital audio and video in its native format. This cable carries both video and audio information; therefore, separate audio cables are not required for a complete HDMI device connection (1) page 19 and page 21).

Note: HDMI cable provides better picture performance than a standard (composite) video or S-video cable.

Dual-wand IR blaster cable



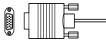
Dual-wand IR blaster cable is for use with video devices with IR (infrared) remote control. This cable can be used with the TV's IR pass-through feature (1) page 17).

To obtain IR blaster cable: Visit www.ceaccessories.toshiba.com.

Optical audio cable

Optical audio cable is for connecting receivers with Dolby Digital or PCM (pulse-code modulation) optical audio input to the TV's **DIGITAL AUDIO OUT** terminal (15) page 20).

Analog RGB (15-pin) computer cable

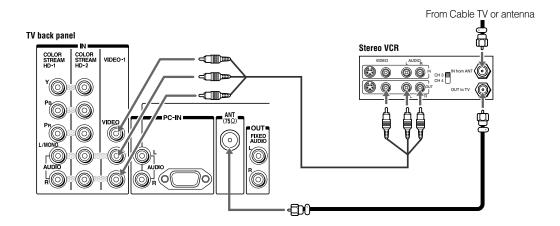


Analog RGB (15-pin) computer cable is for connecting a PC to the TV's **PC IN** terminal (see page 21).

About the connection illustrations

You can connect different types and brands of devices to your TV in several different configurations. The connection illustrations in this manual are representative of typical device connections only. The input/output terminals on your devices may differ from those illustrated herein. For details on connecting and using your specific devices, refer to each device's owner's manual.

Connecting a VCR and antenna or Cable TV (no Cable box)



You will need:

- coaxial cables
- standard A/V cables
 - For better picture performance, if your VCR has S-video, use an S-video cable (plus the audio cables) to VIDEO 2 on the side panel (instead of to VIDEO 1). Do not connect both types of video cable to VIDEO 2 at the same time or the picture performance will be unacceptable.
 - If you have a mono VCR, connect L/MONO on the TV to your VCR's audio out terminal using the white audio cable only.

To view the antenna or Cable signal:

Select the ANT video input source on the TV.*

To view the VCR:

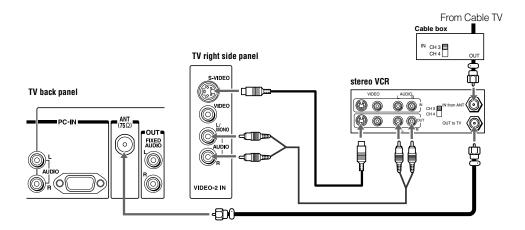
Turn ON the VCR. Select the **VIDEO 1** video input source on the TV.*

 To select the video input source, press INPUT on the remote control (nor page 23). To program the TV remote control to operate other devices, see Chapter 3.

The unauthorized recording, use, distribution, or revision of television programs, videotapes, DVDs, and other materials is prohibited under the Copyright Laws of the United States and other countries, and may subject you to civil and criminal liability.

Connecting a VCR with S-video and a cable box

An S-video connection will provide better picture performance than a standard (composite) video cable.



You will need:

- coaxial cables
- · S-video cable
 - Do not connect both types of video cable to VIDEO 2 at the same time or the picture performance will be unacceptable.
- standard audio cables
 - If you have a mono VCR, connect L/MONO on the TV to your VCR's audio out terminal using the white audio cable only.

Note: When you use a Cable box, you may not be able to use the remote control to program or access certain features on the TV.

To view basic and premium Cable channels:

Turn OFF the VCR. Select the **ANT** video input source on the TV.* Tune the TV to channel 3 or 4 (whichever channel the Cable box output is set to). Use the Cable box controls to change channels.

To view the VCR:

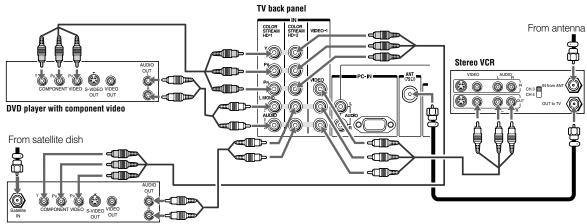
Turn ON the VCR. Select the $\ensuremath{\text{ViDEO 2}}$ video input source on the TV.*

 To select the video input source, press INPUT on the remote control (Is page 23). To program the TV remote control to operate other devices, see Chapter 3.

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Connecting a DVD player with ColorStream[®] (component video), a VCR, and a satellite receiver

Your TV has two sets of ColorStream® (component video) inputs.



Satellite receiver with component video

You will need:

- coaxial cables
- standard A/V cables
- For better picture performance, if your VCR has S-video, use an S-video cable (plus the audio cables) to VIDEO 2 on the side panel (instead of to VIDEO 1). Do not connect both types of video cable to VIDEO 2 at the same time or the picture performance will be unacceptable.
- If you have a mono VCR, connect L/MONO on the TV to your VCR's audio out terminal using the white audio cable only.
- standard audio cables
- component video cables
- You can connect the component video cables (plus audio cables) from the DVD player or satellite receiver to either set of ColorStream terminals on the TV (HD-1 or HD-2). The ColorStream HD-1 and HD-2 terminals can be used with Progressive (480p, 720p) and Interlaced (480i, 1080i) scan systems. A 1080i signal will provide the best picture performance (1080p is not supported).
- If your DVD player or satellite receiver does not have component video, connect a standard A/V cable to VIDEO 2 on the side panel. If your DVD player has HDMI video, see page 19.

To view antenna or Cable channels:

Select the ANT video input source on the TV.*

To view the DVD player:

Turn ON the DVD player. Select the **ColorStream HD-1** video input source on the TV.*

To view satellite programs using the component video connections:

Turn on the satellite receiver. Select the **ColorStream HD-2** video input source on the TV.*

To view the VCR or view and record antenna channels:

Turn ON the VCR. Tune the VCR to the channel you want to watch. Select the **VIDEO 1** video input source on the TV.*

To record a TV program while watching a DVD: Turn ON the VCR. Tune the VCR to the channel to record. Select the **ColorStream HD-1** video input source on the TV* to view the DVD.

 To select the video input source, press INPUT on the remote control (Is page 23). To program the TV remote control to operate other devices, see Chapter 3.

The unauthorized recording, use, distribution, or revision of television programs, videotapes, DVDs, and other materials is prohibited under the Copyright Laws of the United States and other countries, and may subject you to civil and criminal liability.

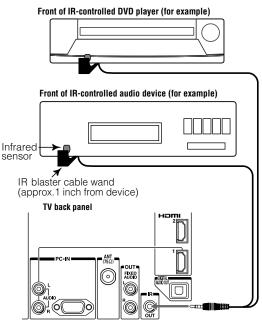


Connecting a device to the IR OUT infrared terminal using the IR blaster cable for IR pass-through device control

You can use the TV's **IR OUT** terminal (infrared passthrough) to remotely operate (through the TV) many infrared remote-controlled devices (such as Toshiba infrared remotecontrolled VCRs or DVD players) enclosed within an entertainment center or similar cabinet. Without the **IR OUT** connection, the device typically would need to be visible to operate it remotely.

You will need:

- dual-wand IR blaster cable (r page 13)
- other audio/video cables as required to connect the device(s) to the TV (rs pages 14–19)



To connect the IR blaster cable:

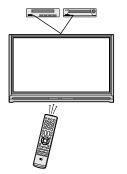
- 1 Locate the infrared sensor on the front of your device. This sensor is marked on some devices.*
- **2** Align one of the IR blaster cable's wands about 1 inch away from the infrared sensor on the front of the device and attach it using double-sided mounting tape. If you have a second device, attach the second wand in a similar manner. (See illustration.)

Note: If you do not have a second device, coil the second wand with a rubber band and leave it behind the TV.

3 Plug the IR blaster cable's plug into the TV's **IR OUT** terminal.

To control the device(s):

Point either the device's remote control or the TV remote control (that you previously programmed to operate the device; rs Chapter 3) toward the front of the TV and press the button for the desired function. The signal passes from the remote control through the TV to the device via the IR blaster cable.



Note:

- If you use the device's remote control to operate the device, you also will need to use the TV's remote control to operate the TV.
- The IR pass-through feature does not support all IR-controlled devices; satisfactory performance may not be attainable with certain devices.

*If you cannot locate the device's infrared sensor:

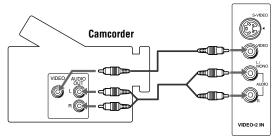
- **1** Turn OFF the device.
- 2 Starting at the lower left corner of the device, place the end of the device's remote control (with the infrared emitter) so it touches the front of the device and press **POWER**. (Do not use the TV's remote control for this step.)
- **3** If the device turns on, the point at which the remote control touched the device is the location of the sensor.
- **4** If the device does not turn on, move the remote control slightly to the right and press **POWER** again.
- **5** Repeat step 4 until you locate the device's infrared sensor.



Connecting a camcorder

You will need:

- · standard A/V cables
- For better picture performance, if your camcorder has S-video, connect an S-video cable (plus the audio cables).

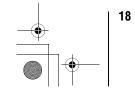


VIDEO 2 inputs on TV right side panel

To view the camcorder video:

Select the VIDEO 2 video input source on the TV.*

 To select the video input source, press INPUT on the remote control (Istrage page 23). To program the TV remote control to operate other devices, see Chapter 3.



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Connecting an HDMI[™] or DVI device to the HDMI input

The HDMI input on your TV receives digital audio and uncompressed digital video from an HDMI source device, or uncompressed digital video from a DVI (Digital Visual Interface) source device.

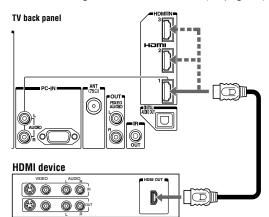
This input is designed to accept HDCP (High-Bandwidth Digital-Content Protection) program material in digital form from EIA/CEA-861-861B–compliant^[1] consumer electronic devices (such as a set-top box or DVD player with HDMI or DVI output).

The HDMI input is designed for best performance with 1080p signals but will also accept and display 480i, 480p, 720p, and 1080i signals.

Note: To connect a PC to the HDMI input, see page 21.

To connect an HDMI device, you will need:

- one HDMI cable (type A connector) per HDMI device
 - For proper operation, it is recommended that you use an HDMI cable with the HDMI Logo (HDMI[™]). You should use an HDMI cable shorter than 16.4 ft (5m) for 1080p input signals.
 - HDMI cable transfers both video and audio. Separate analog audio cables are not required (see illustration).



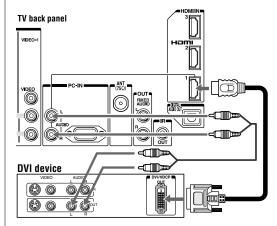
To view the HDMI device video:

Select the HDMI 1, HDMI 2, or HDMI 3 video input source on the TV.*

- **Note:** If the audio output mode of the HDMI device is other than the L-PCM mode, the TV speakers will not output sound.
- ⁶ To select the video input source, press **INPUT** on the remote control (reg page 23). To program the TV remote control to operate other devices, see Chapter 3.

To connect a DVI device, you will need:

- one HDMI-to-DVI adapter cable (HDMI type A connector)
 per DVI device
 - For proper operation, the length of an HDMI-to-DVI adapter cable should not exceed 9.8 ft (3m). The recommended length is 6.6 ft (2m).
- one pair of standard analog audio cables per DVI device
- An HDMI-to-DVI adapter cable transfers video only. Separate analog audio cables are required (see illustration).



Note: To ensure that the HDMI or DVI device is reset properly, it is recommended that you follow these procedures:

- When turning on your electronic components, turn on the TV first, and then the HDMI or DVI device.
- When turning off your electronic components, turn off the HDMI or DVI device first, and then the TV.
- [1] EIA/CEA-861-861B compliance covers the transmission of uncompressed digital video with high-bandwidth digital content protection, which is being standardized for reception of highdefinition video signals. Because this is an evolving technology, it is possible that some devices may not operate properly with the TV.

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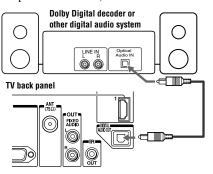
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Connecting a digital audio system

The TV's **DIGITAL AUDIO OUT** terminal outputs a Dolby®* Digital TIME or 2-channel down-mixed PCM (pulse-code modulation) signal for use with an external Dolby® Digital decoder or other external audio system with optical audio input.

You will need:

 optical audio cable (Use an optical audio cable that has the larger "TosLink" connector and not the smaller "minioptical" connector.)



To control the audio:

- **1** Turn on the TV and the digital audio device.
- 2 Press O on the TV's remote control and open the Audio menu.
- 3 Highlight Audio Setup and press m.



4 In the Optical Output Format field, select either Dolby Digital or PCM, depending on your device (IS "Selecting the optical audio output format" on page 48).

Audio Setup					
PC Audio	No				
HDMI 1 Audio	Auto				
MTS	Stereo				
Language	English				
Optical Output Format	◄ Dolby Digital ►				
Dolby Digital Dynamic Range Control	Compressed				
Reset	Done				

Note:

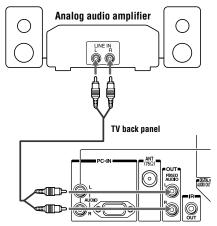
- Some audio systems may not be compatible with Dolby Digital bitstream signals. Older audio systems that are not compatible with standard optical out signals may not work properly, creating a high noise level that may damage speakers or headphones. THIS DAMAGE IS NOT COVERED BY YOUR WARRANTY.
- The **DIGITAL AUDIO OUT** terminal may not output some digital audio sources because of copy restrictions.
- * Manufactured under license from Dolby Laboratories. Dolby, and the double-D symbol are registered trademarks of Dolby Laboratories.

Connecting an audio system

This connection allows you to use external speakers with an external analog audio amplifier to adjust the sound level.

You will need:

• standard audio cables

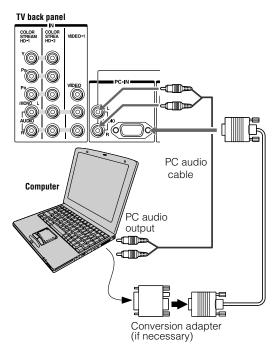


To control the audio:

- **1** Turn on the TV and the stereo amplifier.
- **2** Minimize the sound volume from the TV's built-in speakers and control the volume level using the amplifier's remote control.

Connecting a personal computer (PC)

To connect a PC to the PC IN terminal on the TV: When connecting a PC to the PC IN terminal on the TV, use an analog RGB (15-pin) computer cable and a PC audio cable.



• To use a PC, set the monitor output resolution on the PC before connecting it to the TV. The following signals can be displayed:

Format	Resolution	V. Frequency
VGA	640×480	60Hz
SVGA	800×600	60Hz
XGA	1024×768	60Hz

Other formats or non-standard signals will not be displayed correctly.

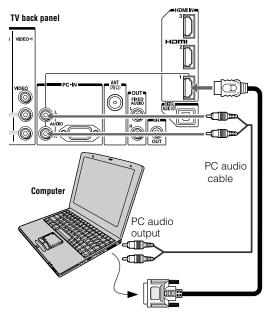
• To display the optimum picture, use the PC setting feature (res "Using the PC settings feature" on page 53).

Note:

- The PC audio input terminals on the TV are shared with the HDMI-1 analog audio input terminals (🕼 page 54).
- Some PC models cannot be connected to this TV.
- An adapter is not needed for computers with a compatible mini D-sub15-pin terminal.

 Depending on the DVD's title and the specifications of the PC on which you are playing the DVD-Video, some scenes may be skipped or you may not be able to pause during multi-angle scenes.

To connect a PC to the HDMI terminal on the TV: When connecting a PC to the HDMI terminal on the TV, use an HDMI-to DVI adapter cable and analog audio cables. If connecting a PC with an HDMI terminal, use an HDMI cable (type A connector). Separate analog cables are not necessary (rs page 19).



· The following signal formats can be displayed:

Format	Resolution	V. Frequency
VGA	640×480	59.94/60Hz
480i (60Hz)	720×480	59.94/60Hz
480p (60Hz)	720×480	59.94/60Hz
720p (60Hz)	1280×720	59.94/60Hz
1080i (60Hz)	1920×1080	59.94/60Hz
1080p (24/60Hz)	1920×1080	59.94/60Hz

Note: The edges of the images may be hidden.

Preparing the remote control for use

Your TV remote control can operate your TV and many other devices such as cable converter boxes, satellite receivers, VCRs, DVD players, and HTIBs (home theater in a box), even if they are different brands.

If you have a Toshiba device:

Your TV remote control is preprogrammed to operate most Toshiba devices (I page 26).

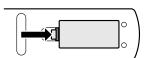
If you have a non-Toshiba device or a Toshiba device that the remote control is not preprogrammed to operate:

You can program the TV remote control so it will operate the other device (\mathbf{r} pages 24–28).

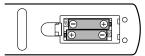
Installing the remote control batteries

1 Remove the battery cover from the back of the remote control.





2 Install two "AAA" size batteries, making sure to match the + and – signs on the batteries to the signs on the battery compartment.



3 Reinsert the battery cover in the remote control until the tab snaps.

Caution: Never throw batteries into a fire.

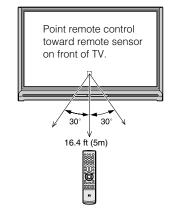
Note:

- Be sure to use AAA size batteries.
- Dispose of batteries in a designated disposal area.
- Batteries should always be disposed of with the environment in mind. Always dispose of batteries in accordance with applicable laws and regulations.
- If the remote control does not operate correctly, or if the operating range becomes reduced, replace batteries with new ones.
- When necessary to replace batteries in the remote control, always replace both batteries with new ones. Never mix battery types or use new and used batteries in combination.

.]-----| Always remove batteries from the remote control if they are dead or if the remote control is not to be used for an extended period of time. This will prevent battery acid from leaking into the battery compartment.

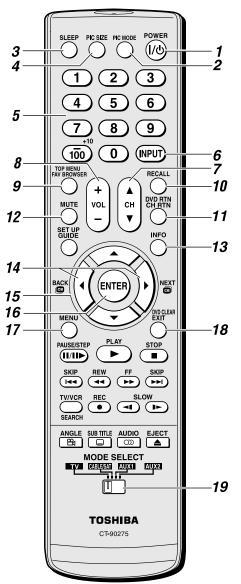
Remote control effective range

For optimum performance, aim the remote control directly at the TV and make sure there is no obstruction between the remote control and the TV.



Learning about the remote control

The buttons used for operating the TV only are described here. For a complete list of the remote control's functions, see the remote control functional key chart (13) page 25).



Note: The error message "Not Available" may appear if you press a key for a function that is not available.

1 POWER turns the TV on and off. Press POWER to turn on the TV, The blue LED indicator on the TV front will be illuminated. Press POWER again to turn off the TV.

Note: The Power-On Mode setting will affect the amount of time it takes for the picture to appear when you turn on the TV (**u** page 35).

- **2 PIC MODE** selects the picture mode (**I** page 44).
- 3 SLEEP accesses the sleep timer (r page 54).
- 4 PIC SIZE cycles through the picture sizes: Natural, TheaterWide 1/2/3, Full, and 4:3 HD (rs page 41).
- 5 Channel Numbers (0-9, -/100) directly tune channels. The m button is used to tune digital channels (n page 40) or to edit the Favorites List (n page 38).
- 6 INPUT selects the video input source (I page 37).
- 7 CH ▲▼ cycles through programmed channels when no menu is on-screen (rs page 32).
- **8** VOL + adjusts the volume level.
- 9 FAV BROWSER accesses the Favorites List in the Channel Brower[™] (rs page 38).
- 10 RECALL displays TV status information (1) page 55).
- **11 CH RTN** returns to the last viewed channel or source (INST page 40).
- 12 MUTE reduces or turns off the sound (I page 46).
- **13 INFO** displays TV status information as well as program details, when available (ISP page 55).
- **15** Arrow buttons (▲▼◀►) When a menu is on-screen, these buttons select or adjust programming menus. (Also see a
- **16 ENTER** activates highlighted items in the main menu system.
- **17 MENU** accesses the main TV menu system (137 pages 29 and 30).
- 18 EXIT closes on-screen menus.
- **19 MODE SELECT switch** switches between TV, CABLE/SAT, AUX 1, and AUX 2 modes (IFF page 24). Set to "TV" to control the TV.

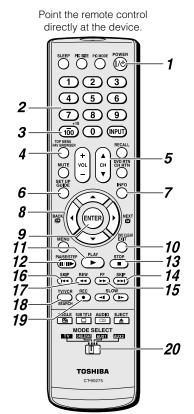
Using the remote control to control your other devices

If you have a non-Toshiba device or a Toshiba device that the remote control is not preprogrammed to operate, you must first program the remote control to recognize the device (if you have not already done so) (1) pages 26–28).

To use your TV remote control to operate a:

- Cable converter box or satellite receiver, set the MODE SELECT switch to CABLE/SAT.
- VCR, set the MODE SELECT switch to AUX 1.
- DVD player or HTIB, set the MODE SELECT switch to AUX 2.

Note: Even after the TV remote control is programmed, it may not operate certain features on any other devices. If this happens and you wish to use those features, you will need to use the device's original remote control.



- **1 POWER** Turns the selected device on and off.
- 2 Channel Numbers (0-9) Press to directly access channels (as opposed to (a) ()).
- **3** +10 Press to directly access DVD chapters higher than 10.
- 4 **TOP MENU** Accesses a DVD's top menu.
- 5 CH ▲▼ For channels programmed into the channel memory (I page 40):
 ▲ selects the next higher channel.
 ▼ selects the next lower channel.
- 6 GUIDE Displays the channel guide in the CABLE/SAT mode.
 SET UP Accesses a DVD's setup menu in the AUX mode.
- 7 INFO Displays TV status information on-screen.
- 8 ▲▼◀▶ Press to navigate DVD menus (may not work on some DVD players).
- **9 ENTER** Required by some satellite receivers and DVD players to activate certain functions.
- 10 DVD CLEAR Press to reset the title and chapter number.
- 11 PLAY Begins playback of a tape or DVD.
- **12 PAUSE** Press during play or record mode to pause the picture; press again to restart.
- 13 STOP Stops the tape or DVD.
- 14 SKIP ISkips forward to locate later DVD chapters.
- **15 FF** Fast-forwards the tape or DVD. (Press during play mode to view the picture moving rapidly forward.)
- **16** SKIP I Skips back to beginning of current DVD chapter, or locates previous chapters.
- **17 REW** Rewinds/reverses the tape or DVD. (Press during play mode to view the picture moving rapidly backward.)
- **18 TV/VCR** To view one program while recording another, press to select TV mode.

SEARCH selects a specific DVD chapter, title or time.

- 19 REC Starts tape recording.
- 20 MODE SELECT switch Set to "TV" to control the TV; "CABLE/SAT" to control a cable converter box or satellite receiver; "AUX 1" to control a VCR; "AUX 2" to control a DVD player or HTIB.

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Remote Control functional key chart

- Note:
 "---" = key does not send a signal in that remote control mode.
 "---TV" = key will affect the TV, even though the remote control is in another mode.

REMOTE CONTROL KEY	Toshiba TV	CABLE	SAT (satellite)	AUX 1 (VCR)	AUX 2 (DVD or HTIB)
POWER	Power	Power	Power	Power	Power
SLEEP	Sleep timer	← TV	← TV	← TV	← TV
PIC SIZE	Picture size	← TV	← TV	← TV	← TV
PIC MODE	PIC MODE	← TV	← TV	← TV	← TV
1-9	Digit 1-9	Digit 1-9	Digit 1-9	Digit 1-9	Digit 1-9
0	Digit 0	Digit 0	Digit 0	Digit 0	Digit 0
100/-/+10	– (sub CH)		- (sub CH)	100	+10
INPUT	TV/Video select	← TV	← TV	← TV	← TV
FAV BROWSER/ TOP MENU	FAV BROWSER DVD TOP Menu*				Top Menu
MUTE	Sound mute	← TV	← TV	← TV	← TV
SET UP/GUIDE	Guide*		SAT Guide		Setup
VOL + -	Volume up/down	← TV	← TV	← TV	← TV
Сн▲▼	Channel up/down	Channel up/down	Channel up/down	Channel up/down	
RECALL	RECALL	← TV	← TV	← TV	← TV
CH RTN/DVD RTN	Previous channel DVD previous menu*				DVD Return
INFO	Info		Info		Display
ENTER	Enter		Select, Enter		Enter
▲▼	Menu up/down		Menu up/down		Menu up/down
	Menu left/ Channel Browser [™]		Menu left		Menu left
NEXT 03	Menu right/ Channel Browser [™]		Menu right		Menu right
MENU	Menu		Action Menu		DVD Menu
EXIT/DVD CLEAR	Exit DVD clear*		Exit		DVD Clear
PAUSE/STEP	Pause*			Pause	Pause
PLAY	Play*			Play	Play
STOP	Stop*			Stop	Stop
SKIP 🛤	Skip REV*				Skip REV
SKIP 🍽	Skip FWD*				Skip FWD
REW	Rewind*			Rewind	Rewind
FF	Fast FWD*			Fast FWD	Fast FWD
TV/VCR/ SEARCH	DVD search*			TV/VCR	DVD search
REC	REC MENU*			Record (2 click)	
SLOW -	SLOW REW*				
SLOW +	SLOW FWD*				
ANGLE	Angle*				DVD Angle
SUB TITLE	Sub title*				DVD Sub title
AUDIO	Audio*				DVD Audio
EJECT	Eject*				DVD Eject
	3	1	1	1	

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Programming the remote control to control your other devices

Your Toshiba TV remote control is preprogrammed to operate most Toshiba devices. To program your TV remote control to operate a non-Toshiba device (or a Toshiba device that it is not preprogrammed to operate), follow the steps below. For details on using the remote control to operate the device, see page 24.

- 1 In the remote control code table (**I**S page 27), find the code for your device. If more than one code is listed, try each one separately until you find one that works.
- 2 Set the **MODE SELECT switch** to the type of device you are programming the remote control to operate — CABLE/SAT (for a cable converter box or satellite receiver), AUX 1 (for a VCR or TV/VCR combo), or AUX 2 (for a DVD player or HTIB [home theater in a box]).
- **3** While holding down ^{RECALL}, press the Channel Number buttons to enter the 3-digit code for your device.
- 4 To test the code, turn on the device, point the remote control at it, and press POWER. See notes below.
 - If the correct code was entered, the device will turn off.
 - If the device does not respond, repeat steps 1–4 using another code.
 - If the device does not respond to another code, you will need to use the remote control that came with the device.
- **5** Remember to set the **MODE SELECT switch** back to "TV" to control the TV.
- **6** For future reference, write down the code(s) you used:

DEVICE	CODE	DEVICE	CODE	

Note:

- In addition to POWER, confirm that all necessary keys on the TV remote control operate your device. If some keys are not operational, repeat the device code setup using another code (if other codes are listed for your device). If, after trying all listed codes, the necessary keys do not operate your device, use the device's original remote control.
- Every time you change the batteries, you will need to reprogram the remote control.
- Some newer VCRs respond to either of two codes. These VCRs have a switch labeled "VCR1/VCR2." If your VCR has this kind of switch and does not respond to the codes for your VCR brand, set the switch to the other position ("VCR1" or "VCR2") and reprogram the remote control.

050, 053

057

027

033

033

019

048

027

029

060

058

030

059

024

014,055

057.106

020, 031, 056

047,058

027

078

065

065

078

065

079

074

057

065

009,010,065

DVD=087,

VCR=081

DVD=088,

VCR=082

DVD=089,

VCR=083

DVD=090.

VCR=084

DVD=091.

VCR=085

DVD=092,

VCR=086

059,062

017.057

036, 052

015,042

008, 009, 013

022, 023, 030

018, 041, 051

008 009 013

023, 031, 049

Remote control codes

In some cases you may not be able to operate your device with the TV remote control. Your other device may use a code that is not recognized by the TV remote control. If this happens, use the device's remote control.

Cable converter box

ABC 061, 062, 063, 082, 084, 087, 092, 096, 098 065, 092, 097, 099 Archer Cableview 064,094 092 Century 090, 092, 097 Citizen 083, 085, 086, 088, Contec 093, 098 Diamond 093 061,062 GE Gemini 069, 070, 094 Hamlin 093 Hitachi 062, 095, 096 Jasco 097 Motorola/GI/Jerrold 062, 069, 071, 082, 086, 089, 096, 107 072,096 Magnavox 092, 104 Memorex Multi Canal 090 Novavision 101 081, 083, 085 Panasonic Philco 087 066, 067, 068, 070, Philips 072, 073, 074, 075, 092 Pioneer 076, 077 061.062 Proscan 092, 097, 099 Radio Shack 064,081 RCA Realistic 065 Recoton 102 077,090 Samsung Scientific Atlanta 063, 078, 079, 080, 088, 098, 101, 105 Sears 095 Signature 062 Signature 2000 096 081, 085 Sprucer 069, 082, 087, 096, Starcom 103, 104 069,090 Stargate Sylvania 095, 100 TeleView 090 100 Texscan 071, 084, 085 Tocom U. S. Electronics 087, 096, 098 United Cable 082 065, 092, 097, 099, Universal 102, 103 Wards 096

Satellite receiver

Alphastar	038, 059
Chaparral	034
DISH Network	057

Drake Echostar Express Vu Fujitsu GE. General Instruments Hitachi Hughes Hughes Network Systems Intersat Janeil JVC Kenwood Magnavox Optimus Pansat Primestar Proscan Radio Shack RCA Realistic Samsung Sony Star Choice Star Trak STS Toshiba Uniden Zenith **TV/VCR** Combo Action GE Goldstar Panasonic Precision Ouasar Realistic Sony Toshiba Zenith Totevision **DVD/VCR** Combo Go

Go Video
JVC
RCA
Samsung
Sanyo
Zenith
DVD player

DV Aiwa

Aiwa	006, 015
Apex	016, 017
BOSE	097
Broksonic	018

020, 040, 044, 046, 010, 011, 012, 022, GE 008, 009, 013, 016 025, 026, 037, 054 000, 001, 002, 003, 004, 005, 006, 007, 021, 028, 030, 032, 035, 039, 043, 045,

Clarion Classic Daewoo Denon Emerson Fisher Funai Go Video GPX Hitachi JVC Kenwood Konka Magnavox Memorex Mintek NAD Nakamichi Norcent Onkyo Oritron Panasonic Philips Pioneer Proscan Owestar RCA Sampo Samsung Sansui Sanyo Sharp Sherwood Sony Svlvania Teac Technics Techwood Toshiba

Yamaha Zenith

Aiwa Audiovox Panasonic

RCA

VCR

Admiral Aiko Aiwa Akai Audiovox Bell & Howell Broksonic Calix Carver CCE Citizen

Colortyme

019 020 021 022, 023, 024, 025 026.027 028 027 001, 029, 030 087 031 005, 032, 033, 034, 035 003, 007, 036, 042, 088 037 008.009 004.038 039 040 026 041 043 044 058 010, 045, 046, 047, 048, 049, 050 004,051 052, 053, 054, 055 001,056 057,058 001, 002, 059, 089 060 061, 062, 086, 090 073 063,091 064,067 074 011, 012, 065, 066, 068,069,070 027 071 072 075 000, 013, 076, 077, 078 079, 080, 081 014, 082, 092

Portable DVD player

093 094,095 024, 096, 099 098

049 019 018 003, 004, 037, 038, 039, 058, 069 010 007,068 008,017 010 026 019 009, 010, 011, 012, 013, 014, 015, 019, 057.073 005

009, 010, 016, 061,

065,079

Chapter 3: Using the remote control

Craig Curtis M

Curtis Mathes 001, 005, 009, 012, 014, 040, 048, 053, 056,057 011, 013, 015, 017. Daewoo 018, 019, 057, 078 078 Daytron 063 Denon 001,048 Dimensia 010, 020, 065 Electrohome 003, 008, 010, 011, Emerson 017, 018, 020, 028, 039, 054, 057, 062, 065, 068, 072 Fisher 007, 016, 021, 022, 023, 057, 064, 068, 070, 071, 079 004,041 Fuii 018,073 Funai 018 Garrard 001, 002, 009, 040, GE 042, 048, 056 Go Video 056, 059, 061, 081 Goldstar 005, 010, 014, 054, 056, 065, 067 Gradiente 018,065 Harman Kardon 005 024, 025, 035, 037, Hitachi 042, 063, 070, 080 JBL 076 005, 006, 007, 008, JC Penney 009, 010, 023, 024, 025, 026, 035, 056, 061, 063, 065 024, 025, 037, 050 Jensen JVC 005, 006, 007, 014, 037, 043, 055, 062, 063.068.082 005, 006, 007, 012, Kenwood 014, 037, 043, 050, 053, 068, 071 Kodak 010 LG 010 Lloyds 053, 073, 079 Logik 061 LXI 010 061, 065, 078 Magnasonic Magnavox 026, 027, 034, 044, 057,061,072 005, 006, 007, 012, Marantz 014, 026, 053, 067 007, 009, 010, 016, Memorex 018, 034, 049, 063, 065, 066, 068, 075, 079 MGA 020, 028, 039 MGN 056 024, 025, 035, 063 Minolta Mitsubishi 020, 024, 025, 028, 039, 043, 065 Montgomery Ward 049 Motorola 049 MTC 009, 046, 061 Multitech 009, 012, 018 NEC 005, 006, 007, 012, 014, 037, 043, 053, 054, 067, 070 Nikko 010 Noblex 009 Optimus 010, 049, 065 Optonica 031

Orion Panasonic Pentax Pentex Research Philco Philips Pioneer Portland Proscan Proton Quasar Radio Shack Radio Shack/Realistic Radix RCA Realistic Ricoh Runco Samsung Sansui Sanyo Scott Sears Sharp Shintom Signature Signature 2000 Singer Sony STS Sylvania Symphonic Tandy Tashiko Tatung Teac Technics Teknika Toshiba Totevision Unitec Unitech Vector Research

054, 057, 062, 065, 068,072 036, 045, 046, 057, 061, 072, 079 012, 024, 025, 035, 042,053,063 014 026, 027, 063 026, 031, 044, 057 006, 024, 043, 055 012, 013, 015 001, 002, 048 061 045 010, 031, 065 007, 009, 010, 016, 018, 020, 021, 022, 031 049 010 001, 002, 003, 009, 024, 025, 029, 035, 040, 042, 045, 048, 055, 056, 063, 071, 083 007, 009, 010, 011, 016, 018, 020, 021, 022, 031, 049, 051, 056, 060, 065, 075, 079 047 034 009, 011, 038, 056, 073,084 006, 037, 043, 061 007, 009, 016, 054, 064, 068, 071, 075, 079, 085 008, 011, 017, 028, 030, 057, 065, 072 007, 010, 016, 021, 022, 023, 024, 025, 035, 053, 057, 063, 064, 065, 068, 071, 075,079 013, 020, 031, 049, 051,060,066 004, 025, 032, 061 049 075 047, 061 004, 032, 033, 041, 052, 058, 070, 074, 076, 077, 080 035 018, 026, 027, 028, 044,072 018, 050, 051, 053, 073, 079 007 010 037 018, 029, 037 036 010, 018, 065 000, 011, 021, 023, 024, 028, 030, 039, 057, 074, 078, 079 009, 010, 065 073 009 005, 006, 011, 012, 053

Wards White Westinghouse XR-1000 Yamaha Zenith

Video Concepts

HTIB

Lasonic Panasonic Venturer 039, 053 009, 010, 011, 016, 018, 020, 024, 025, 031, 035, 049, 051, 056, 057, 060, 065, 066, 079 073 018 005, 006, 007, 014, 037, 053 004, 032, 034, 041, 047, 069, 086

005, 006, 011, 012,

083 084 085

28

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Chapter 4: Menu layout and navigation

Main menu layout

The tables below and on the next page provide a quick overview of your TV's menu system. To open the main menus (illustrated below), press $\stackrel{\text{MENU}}{\bigcirc}$ on the remote control or TV control panel.

lcon	Item	Option	Page
Video	Mode	→ Sports/Standard/Movie/Preference	44
	Picture Settings	\rightarrow [Opens the Picture Settings menu]	44
	Noise Reduction	\rightarrow [Opens the Noise Reduction menu]	58
	Game Mode	\rightarrow On/Off	59
	Theater Settings	\rightarrow [Opens the Theater Settings menu]	41
Audio	Digital Audio Selector	→ [Launches the temporary Audio Selector]	46
	Audio Settings	→ [Opens the Audio Settings menu]	47
	Advanced Audio Settings	→ [Opens the Advanced Audio Settings menu]	59
	Audio Setup	→ [Opens the Audio Setup menu]	47
Preferences	CC Selector	→ [Launches the temporary CC Selector]	46
	Base CC Mode	\rightarrow OFF/CC1/CC2/CC3/CC4/T1/T2/T3/T4	45
	Digital CC Settings	→ [Opens the Digital CC Setup menu]	45
	Input Labeling	→ [Opens the Input Labeling menu]	37
	Channel Labeling	\rightarrow [Opens the Channel Labeling menu]	33
	Menu Language	→ English/French/Spanish	31
	Channel Browser Setup	\rightarrow [Opens the Channel Browser Setup menu]	38
Locks	Enable Rating Blocking	→ Off/On	50
	Edit Rating Limits	→ [Opens the Edit Rating Limits menu]	50
	Channels Block	\rightarrow [Opens the Channels block menu]	51
	Input Lock	→ Off/Video/Video+	52
	Front Panel Lock	→ Off/On	53
	New PIN Code	→ [Opens the New PIN Code entry screen]	49
Setup	Installation	→ [Opens the Installation menu]	31
244	Sleep Timer	→ [Opens the Sleep Timer menu]	54
~	PC Settings	\rightarrow [Opens the PC Settings menu]	53
	Power-On Mode	→ Power-Saving/Fast	35

Chapter 4: Menu layout and navigation

Setup/Installation menu layout

The Installation menu contains the Terrestrial and System Status menus.

To open the **Installation** menu (illustrated below), press ^{MENU} on the remote control or TV control panel, open the **Setup** menu, select **Installation**, and press .

	lcon	Item	Option	Page
Press O ^{MENU} ,	Terrestrial	Input Configuration	\rightarrow [Opens the Input Configuration menu]	31
open the	HH	Channel Program	\rightarrow [Start] \rightarrow [Scans for new channels on ANT]	
Setup menu, and then		Channel Add/Delete	→ [Opens the Channel Add/Delete menu]	32
open the		Signal Meter	\rightarrow [Opens the Signal Meter menu]	35
Installation sub-menu.	System Status	System Information	\rightarrow [Opens the System Information screen]	36

Navigating the menu system

You can use the buttons on the remote control or TV control panel to access and navigate your TV's on-screen menu system.

- Press \bigcirc^{MENU} to open the menu system.
- When a menu is open, use the up/down/left/right arrow buttons (▲▼◀►) on the remote control or TV control panel to move in the corresponding direction in the menu.
- Press m to save your menu settings or select a highlighted item. (A highlighted menu item appears in a different color in the menu.)
- All menus close automatically if you do not make a selection within 60 seconds, except the signal meter menu, which closes automatically after about 5 minutes.
- To close a menu instantly, press ^{EXIT}.

Note:

 The menu background may sometimes appear black, depending on the signal the TV is receiving. This is not a sign of malfunction.



 The Video sub-menu appears with a black background, which looks different from other menus.



Selecting the menu language

You can choose from three different languages (English, French and Spanish) for the on-screen display of menus and messages.

To select the menu language:

- **1** Press on and open the **Preferences** menu.
- 2 Highlight Menu Language and press ►.
- 3 Press ▲ or ▼ to select your preferred menu language and press im.

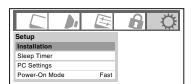


4 Press of to close the **Preferences** menu.

Configuring the antenna input source for the ANT terminal

To configure the ANT input source:

- **1** Press ^{MENU} and open the **Setup** menu.
- 2 Highlight Installation and press m.



3 (A new set of Installation menu icons will appear, as shown below.) Open the Terrestrial menu, highlight Input Configuration, and press m.

mh Li
Terrestrial
Input Configuration
Channel Program
Channel Add/Delete
Signal Meter

4 Press ◀ or ► to select the input source (Cable or Antenna) for the ANT input on the TV.

Input Configuration				
Antenna In		•	Cable	►
	Cancel		Done	

5 To save your new settings, highlight **Done** and press in To revert to your original settings, highlight **Cancel** and press in.



Programming channels into the TV's channel memory

When you press (\widehat{H}) or $[\mathfrak{S}]$ on the remote control or TV control panel, your TV will stop only on the channels you programmed into the TV's channel memory.

Follow the steps below to program channels into the TV's channel memory.

Programming channels automatically

Your TV can automatically detect all active channels in your area and store them in its memory. After the channels are programmed automatically, you can manually add or erase individual channels in the channel memory.

Note:

- You must configure the antenna input source before programming channels (1877 page 31).
- If the Antenna input signal type is set to Cable, the automatic channel programming process erases channels that were previously programmed into the TV's memory.
- If the Antenna input signal type is set to Antenna, the automatic channel programming process adds newly found channels to the existing set of programmed channels (and does NOT erase channels that were previously programmed into the TV's memory.) To remove an Antenna source channel from the memory, you must manually delete it.
- To tune the TV to a channel not programmed in the channel memory, you must use the Channel Number buttons on the remote control.
- Programming channels when the antenna input is configured for **Cable** will take substantially longer than when the antenna input is configured for **Antenna**. This is normal; however, once channel programming is finished, you should not have to repeat the programming process again unless your Cable TV service lineup changes significantly.

To program channels automatically:

- 1 Configure the antenna input source, if you have not already done so (1877 page 31).
- 2 Press O and open the **Setup** menu.
- **3** Highlight Installation and press **Fig.**



4 (A new set of **Installation** menu icons will appear, as shown below.) Open the **Terrestrial** menu, highlight **Channel Program** to bring up the **Start**, and press me again to begin channel programming.



The TV will automatically cycle through all the antenna channels, and store all active channels in the channel memory. While the TV is cycling through the channels, the message "Scanning channels, please wait" appears (as shown above).

5 To cancel channel programming, press ^{ENT} on the remote control (or highlight **Abort** in the on-screen display and press).

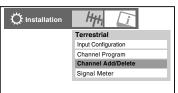
When channel programming is finished, press \bigcirc or \bigcirc to view the programmed channels.

Manually adding and deleting channels in the channel memory

After automatically programming channels into the channel memory, you can manually add or delete individual channels.

To add or delete channels in the channel memory:

- **1** Press O and open the **Setup** menu.
- 2 Highlight Installation and press (***).
- 3 (A new set of **Installation** menu icons will appear, as shown below.) Open the **Terrestrial** menu, highlight **Channel Add/Delete**, and then press **(19)**.



To add a channel to the channel memory:

Highlight the unchecked box next to the channel number you want to add, and then press must to check the box.

To manually add digital subchannels on a physical channel:

Use the Channel Numbers and the Dash (m) on the remote control to enter the channel number (for example, 56–1). If the channel is found, the number will be added to the list and the box will be checked.

If the channel is not found, a message will appear.

To remove a channel from the channel memory:

Highlight the checked box next to the channel number you want to remove, and then press in to uncheck the box.

To save your new settings:

Highlight **Done** and press I.

To revert to your original settings:

Highlight Cancel and press m before saving.

To remove all channels from the channel memory: Highlight **Reset** and press **(IIII)**, and then highlight **Done** and press **(IIII)**.

Chann	nel Add/	Delete		
	2	-	Analog	
~	2 - 1	-	Digital	
~	2 - 2	-	Digital	
	3	-	Analog	
~	4	-	Analog	
V	5	-	Digital	
	6	-	Analog	
	7	-	Analog	Reset
×	7 - 1	-	Digital	Cancel
▼ 🗆	8	-	Analog	Done

To remove encrypted channels from the channel memory:

If an encrypted channel is accidentally added to the channel list by programming channels, you can remove the unwanted encrypted (non-viewable) channel while you are channel surfing. When you tune to an encrypted channel, the following message will appear.

Digital Channel Is Encrypted - Press 1 on remote to remove channel

Press "①" button while the message is on the screen to remove the unnecessary channel from the channel list.

Labeling channels

A list of common channel labels (logos) for various channels (ABC, CBS, etc.) will be programmed into the TV. You will be able to view and assign these logos from the **Channel Labeling** window. If the desired channel label is not provided in the list, you will be able to manually enter/edit labels using the software keyboard.

To assign channel labels:

- **1** Press $\stackrel{\text{MENU}}{\bigcirc}$ and open the **Preferences** menu.
- 2 Highlight Channel Labeling and press I. The Channel Labeling window opens.





- **3** Press \bigcirc or \bigcirc to select the channel you want to label.
- 4 Press ▲▼◀► to highlight the desired channel label and press (m).
- **5** Repeat steps 3 and 4 for other channels.
- **6** To save your settings, highlight **Done** and press **E**.

Cha	nnel Labeling	
۸	{No Label}	HH ANT
	A&E	24
	ABC	A&E
	ABCFAM	Press CH UP/DOWN to change channels.
	ABCHD	
	AMAX	
	AMAXW	/ Custom
	AMC	Clear All
*	ANIMAL	Done

The maximum number of labels that can be stored is 128.

To remove channel labels:

- **1** Open the **Channel Labeling** window.
- 2 Press (♣) or (♥) to select the channel for which you want to remove the label.



3 Press $\blacktriangle \lor \blacklozenge \lor$ to highlight **No Label** and press \blacksquare .

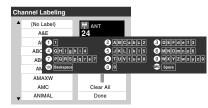


- **4** Repeat steps 2 and 3 for other channels.
- **5** To save your settings, highlight **Done** and press **E**.

If the desired channel label is not available from the list of presets, you can create a custom label.

To create and assign a custom label:

- **1** Open the **Channel Labeling** window.
- **2** Press \bigcirc or \bigcirc to select a channel you want to label.
- 3 Press ▲▼ ► to highlight Custom and press I he software keyboard will appear.



- 4 Repeatedly press the corresponding key on the remote control to highlight the desired character on the on-screen software keyboard.
- **5** The highlighted character is entered after you either press a different key, press ► key, or after a two-second pause.
- **6** Repeat steps 4 and 5 until you have entered all desired text.
- 7 When finished, press I.
- 8 (New labels will be added to the list in alphabetical order and marked with an icon ✓ to indicate that they are custom.) Highlight the new custom label and press to assign. Assigned channel labels will be displayed in the banner, **Channel Add/Delete** window, and **Channels Block** window.

To delete the custom label:

- **1** Open the **Channel Labeling** window.
- **2** Highlight the label to be deleted and press **(iii)**.

3 Highlight **Yes** from the deletion confirmation window and press **m**.



4 Highlight **Done** and press m to save changes, and go back to the **Channel Labeling** window.

Setting the HDMI[™] audio mode

To set the HDMI audio mode:

- **1** Press $\overset{\text{MENU}}{\bigcirc}$ and open the **Audio** menu.
- 2 Highlight Audio Setup and press m.
- 3 Press ▲ or ▼ to select HDMI 1 Audio and then press ▲ or ▶ to select the HDMI 1 audio mode (Auto, Digital, or Analog). (Auto is the recommended mode.) See "Connecting an HDMI or DVI device to the HDMI input" (ISF page 19).

4	Audio Setup							
	PC Audio	No						
	HDMI 1 Audio	▲ Auto ►						
	MTS	Stereo						
	Language	English						
	Optical Output Format	Dolby Digital						
	Dolby Digital Dynamic Range Control	Compressed						
	Reset	Done						

Note: Because the PC and HDMI-1 inputs share the same set of analog audio inputs, the PC Audio menu setting influences the HDMI 1 Audio menu setting. If PC Audio is set to "No," the HDMI 1 Audio setting changes to "Auto." If PC Audio is set to "Yes," the HDMI 1 Audio setting is set to "Digital" and is grayed out in the menu. (Also see item 3 on page 12 and "Setting the PC Audio" on page 54.)

Setting the Power-On Mode feature

You can select either Power-Saving or Fast mode.

If you select **Power-Saving** mode and you turn off the TV, it can take several seconds for the picture to appear when you turn on the TV again. **Power-Saving** mode saves more power than **Fast** mode. See "Specifications" on page 66 for details.

If you select **Fast** mode and the TV is turned off, the TV will stay in Standby mode for several minutes (see Note below). If the TV is turned on from Standby mode, the full picture appears immediately.

To set the Power-On Mode feature:

- **1** Press O and open the **Setup** menu.
- 2 Highlight Power-On Mode and press ►.
- **3** Press \forall or \blacktriangle to select either **Fast** or **Power-Saving** and press \blacksquare .

	<u>[</u>]]	6
Setup		
Installation		
Sleep Timer		
PC Settings		
Power-On Mode	Fast	Power-Saving
		Fast

Note: If **Power-On Mode** is set to **Fast** and you turn off the TV, the following will occur for a few minutes:

- The screen (lamp) lights dimly; and
- The fans continue to run.

This is a function of the Power-On Fast Shutdown mode and is not a TV malfunction. If you do not prefer this, set the **Power-On Mode** feature to **Power-Saving**.

When the **Power-On Mode** feature is set to **Power-Saving**, if you repeatedly turn the TV on and off in a short period of time, the useful service life of the lamp may be shorter than the average useful service life (res page 63).

IMPORTANT NOTICE ABOUT HOT LAMP RESTART

When the TV has been powered on long enough for the lamp unit to get hot, it may take several minutes for the picture to appear in the following situations:

- When the Power-On Mode feature is set to Power-Saving and you turn the TV off and then on again within a few minutes; or
- If the TV is on when a short-term power failure, power surge, or other similar power failure occurs, such that the TV loses and regains power within a few minutes.

This is a property of DLP^{\circledast} TV lamp technology and is NOT a sign of malfunction.

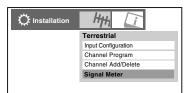
If this occurs, the yellow LED on the TV front panel will blink (and the blue LED will be lit solid) until the TV is finished restarting the lamp and the normal picture appears. If both LEDs are blinking, you will need to turn the TV off and then on again to restart the lamp.

Viewing the digital signal meter

You can view the digital signal meter in the ANT digital TV input source only.

To view the digital signal meter:

- **1** Press \bigcirc^{MENU} and open the **Setup** menu.
- 2 Highlight Installation and press m.
- 3 A new set of Installation menu icons will appear, as shown below. Open the Terrestrial menu, highlight Signal Meter, and press is.



4 Press ▲▼◀► to select the antenna input and digital channel whose signal you want to check.

Note: The physical digital channel number listed in the Signal Meter screen may not correspond to a virtual TV channel number. Contact your local broadcasters to obtain the RF channel numbers for your local digital stations.

Signal Meter				
Signal Locked	i			
		0	Peak	0
Physical Digit	al Channel		4	
Virtual Digital	Channel		4-1	
	Advanced	Do	ine	

To close the screen and return to the Terrestrial menu:

Highlight **Done** and press I.

To return to normal viewing: Press $\stackrel{\text{ExIT}}{\bigcirc}$.

Viewing the system status

To view the system status:

- **1** Press ^{MENU} and open the **Setup** menu.
- 2 Highlight Installation and press Im.
- **3** A new set of Installation menu icons will appear, as shown below. Open the **System Status** menu, highlight **System Information**, and press **(PR)**.



4 Press **♦** to scroll through the menu bar to select the **Software Version** and view the related information.

S	/stem	Information	
	•	Software Version	
		HM07	
		3.2.21.0	
		Nov 17 2006 - 01:52:20	
		FW: 0B	
		Done	

To close the screen and return to the Installation menu:

Highlight Done and press I.

To return to normal viewing: Press $\stackrel{\text{EXIT}}{\bigcirc}$.

Reset Factory Defaults

To reset all settings and channels to their factory default values:

- **1** Press O and open the **Setup** menu.
- **2** Highlight **Installation** and press **(IIII)**. A new set of Installation menu icons will appear.
- **3** Open the **System Status** menu, highlight **System Information**, and press **(19)**.
- 4 Press **♦** to scroll through the menu bar to select **Factory Defaults**.



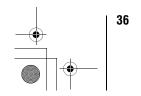
5 Enter your PIN code (or 0000 if no PIN code has been set).

6 Highlight **Yes** and press **(iii)**. The TV will turn off automatically after a few seconds. After the TV turns off, unplug the TV power cord and then plug it in again to complete the reset process.



To cancel the reset:

Highlight **No** and press I.

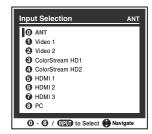


Selecting the video input source to view

To select the video input source to view:

- Press (NPUT) on the remote control or TV control panel.
- **2** And then either:
 - a) Press 0-8; or
 - b) Repeatedly press ▲▼ on the remote control and then press 📾 to change the input; or
 - c) Repeatedly press (Fig) on the remote control or TV control panel to change the input.

The current signal source displays in the top right corner of the **Input Selection** screen.



Note:

- You can label the video input sources according to the specific devices you have connected to the TV (us "Labeling the video input sources" at right).
- Sources can also be "hidden" (see "Labeling the video input sources" at right).
- "No Video Signal" will appear randomly on the screen if no signal is received in video input mode.

Labeling the video input sources

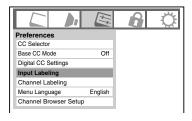
You can label each video input source according to the type of device you connected to each source, from the following preset list of labels:

- -- (default label)
- Audio Receiver
- Cable
- Compact Disc
- DTV
- DVD
- Game Console
- HD DVD
- Laser Disk
- Satellite/DSS
- VCR
- Video Recorder
- Hide (to hide an unused input in the Input Selection screen)

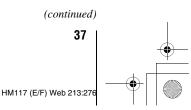
Note: If you select PC in the Input Selection screen, you can choose only "---" or "Hide" as the label.

To label the video input sources:

- **1** Press ^{MENU} and open the **Preferences** menu.
- 2 Highlight Input Labeling and press in.
- **3** Press \blacktriangle or \checkmark to highlight the video source you want to label.



nput Labeling					
Video 1	VCR				
Video 2	Cable				
ColorStream HD 1	Video Recorder				
ColorStream HD 2	Hide				
HDMI 1	DTV				
HDMI 2	Satellite/DSS				
HDMI 3	DVD				
PC					
Reset	Done				

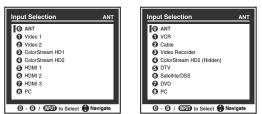


- 4 Press ≤ or > to select the desired label for that input source. If a particular input is not used, you can select Hide as the label, which will cause that input to be "grayed out" in the Input Selection screen and skipped over when you press imp on the remote control.
- **5** To save the new input labels, highlight **Done** and press in.

To revert to the factory default labels, highlight **Reset** and press (99).

Input labeling example:

The screen below left shows the default **Input Selection** screen (with none of the inputs labeled as a specific device). The screen below right is an example of how you could label the inputs if you connected a VCR to VIDEO 1, Cable TV to VIDEO 2, a video recorder to ColorStream HD1, a DTV settop box to HDMI 1, a satellite/DSS set-top box to HDMI 2, and a DVD player to HDMI 3. Also note that the ColorStream HD2 input is labeled "Hidden," which means that input will be skipped over when imp is pressed.



Input Selection screen with

which has been hidden.

all inputs labeled except input 4,

Input Selection screen with no inputs labeled.

To clear the input labels:

- **1** Press \bigcirc^{MENU} and open the **Preferences** menu.
- 2 Highlight Input Labeling and press in.
- 3 Highlight Reset and press m.

Tuning channels

Tuning channels using the Channel Browser™

The Channel Browser[™] provides an easy navigation interface for all your channels and inputs. This feature allows you to:

- Navigate the contents of all of your inputs.
- Keep a list of your favorite channels (see "Favorites Browser," below).
- · Keep a history of the last 32 channels or inputs viewed.
- Quickly surf and tune your recently viewed channels/inputs from the Channel Browser[™] History List (illustrated on the next page).
- Surf via Browse mode (to immediately tune channels as you highlight them in the Channel Browser[™]) or Select mode (to surf over channels in the Channel Browser[™] before you select one to tune).
- · Quickly change inputs from the Inputs List.

Favorites Browser

The Favorites Browser allows you to quickly set up a favorite channels/inputs list that is integrated into the Channel BrowserTM.

To add a favorite channel/input:

- **1** Tune to the channel or input.
- **2** Press and hold ^{FAV BROWSER} for 3 seconds.

Note: Additions are added to the beginning of the Favorites list on the left side of the Channel Browser[™].

To delete a favorite channel/input:

- **1** Press $\stackrel{FAV BROWSER}{\bigcirc}$ to open the Favorites browser list.
- **2** Highlight the channel or input to delete by pressing $\underset{\leftarrow}{\boxtimes} \blacktriangleleft$ or $\underset{\leftarrow}{\boxtimes} \blacktriangleright$.
- **3** Press and hold () for 3 seconds. The channel/input will be removed from the Favorites list.

To set up the Channel Browser[™]:

- **1** Press ^{MENU} and open the **Preferences** menu.
- 2 Highlight Channel Browser Setup and press m.
- 3 Press ▲ to highlight Navigation, and then press ◀ or ► to select either Browse Mode or Select Mode.

С	Channel Browser Setup			
	Navigation	◄ Select Mode ►		
	History List	Power Off Clear (On)		
	ANT List	On		
	Inputs List	On		
	Favorites List	On		
	Reset	Done		

4 Press ▼ to highlight History List, and then press ◄ or ► to select the setting you prefer: either Power Off Clear (On), On, or Off.

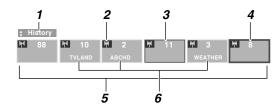
Note: When History List is set to On and the Power-On Mode (I page 35) is in Fast mode, the channels and inputs stored in the list will be saved every power on/off cycle. When History List is set to Power Off Clear (On), the channels and inputs stored in the list will be cleared with every power on/off cycle of the TV.

- 5 Press ▼ to highlight ANT List, and then press ◄ or ► to select On or Off.
- 6 Press ▼ to highlight Inputs List, and then press ◄ or ► to select On or Off.
- 7 Press ▼ to highlight Favorites List, then press ◄ or ► to select On or Off.
- 8 To save your entries, highlight Done and press in To return to factory defaults, highlight Reset and press in.

To open the Channel Browser[™]:

- Press $\overset{\text{MAX}}{\textcircled{a}}$ \blacktriangleleft or $\overset{\text{NAX}}{\textcircled{a}}$ \blacktriangleright on the remote control.
- Press
 → to surf forward through the channel History, the ANT channel list, the Inputs list, or the favorite channels/ inputs in Favorites list.

Elements of the Channel Browser[™]



- 1 Current list (History, ANT, Inputs, or Favorites)
- 2 Input type
- **3** Channel or input currently being viewed
- **4** Channel or input that is currently highlighted in the browser
- **5** Channels stored in the History List
- 6 Channel labels

To toggle among the available lists:

After opening the Channel BrowserTM, press \blacktriangle or \blacktriangledown to toggle among **History**, **ANT**, **Inputs**, and **Favorites**.

Note:

 The Channel Browser[™] opens in **History List** by default. Once another list has been selected, the Channel Browser[™] will open in the last selected list.

- If all lists are turned off, pressing
 If all lists are turned off, pressing
 If Favorites List is turned off, ^{FAV BROWSER} will have no effect.
- Pressing ^{FAV BROWSER} will bring up the Channel Browser[™] Favorites list regardless of the last selected list in the Channel Browser[™].

To tune to a channel or input in Browse mode:

- While watching TV, press of a row to open the Channel Browser[™] and surf back to a previous item or surf forward to the next item in the list. In **Browse** mode, when you stop on an item in the Channel Browser[™], it will be highlighted and the TV will automatically tune to the channel or input.
- **2** Press $\stackrel{\text{EXIT}}{\bigcirc}$ to close the Channel BrowserTM.

To tune to a channel or input in Select mode:

- While watching TV, press G < or F > to open the Channel Browser[™] and surf back to a previous item or forward to the next item in the list. In **Select** mode, when you stop on an item in the Channel Browser[™], it will be highlighted but you must press reg to tune the TV to the highlighted item.
- **2** Press me to tune the TV to the highlighted item.
- **3** Press $\stackrel{\text{EXIT}}{\bigcirc}$ to close the Channel BrowserTM.

Adding and clearing channels and inputs in the History List

Adding channels and inputs to the History List:

As a channel or input is tuned, the Channel BrowserTM adds it to the History List and displays it on the "right side" of the Channel BrowserTM. Previously tuned channels/inputs are "shifted" to the left, eventually moving off the left side. Press of to surf backward through the previously tuned channels/ inputs. Any channel or input that is tuned repeatedly will not be repeated in the History List, but instead is moved to the end of the list on the right side of the Channel BrowserTM.

The Channel Browser[™] will store the following channels:

- All channels that are tuned using the numeric buttons on the remote control.
- All channels that are tuned using (or) on the remote control.

Note: Whenever an item is selected that cannot be tuned (for various reasons), the TV will automatically tune to the previously viewed channel or input.

(continued)

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Clearing channels from the History List:

- Reconfiguring the ANT input will clear the History List.
- **Note:** See page 31 for details on configuring the antenna input.
- Once 32 channels or inputs are stored in the History List, the oldest item will be removed from the list when a new channel or input is tuned.
- If **History List** in the **Channel Browser Setup** is set to "**Power Off Clear (On)**," turning off the TV will clear the History List.

Tuning to the next programmed channel

To tune to the next programmed channel:

Press (or U on the remote control or TV control panel.

Note:This feature will not work unless you program channels into the TV's channel memory (reg page 32).

Tuning to a specific channel (programmed or unprogrammed)

Tuning analog channels:

Press the Channel Number (0–9) on the remote control. For example, to select channel 125, press 1, 2, 5.

Tuning digital channels:

Press the Channel Number (0-9) on the remote control, followed by the dash (100) button and then the sub-channel number. For example, to select digital channel 125-1, press 1, 2, 5, -, 1.

Note: If a digital channel is not programmed—either through the automatic channel scan (\mathbf{w} page 32) or the channel add/ delete function (\mathbf{w} page 32)—you will have to tune the RF channel using the Channel Number and dash ((\mathbf{w})) on the remote control.

Switching between two channels using Channel Return

The Channel Return feature allows you to switch between two channels without entering an actual channel number each time.

- **1** Select the first channel you want to view.
- 2 Select a second channel using the Channel Number buttons (and the dash (()) button if selecting a digital channel).
- 3 Press ^{CHRTN} on the remote control. The previous channel will display. Each time you press ^{CHRTN} ⊖, the TV will switch back and forth between the last two channels that were tuned.

Note: If you press ^{CH TIN} from a non-antenna input, the TV will return to the last-viewed input.

Switching between two channels using SurfLock™

The SurfLockTM feature temporarily "memorizes" one channel to the $\bigcirc^{CH_{RTN}}$ button, so you can return to that channel quickly from any other channel by pressing $\bigcirc^{CH_{RTN}}$. To memorize a channel to the $\bigcirc^{CH_{RTN}}$ button:

- 1 Tune the TV to the channel you want to program into the CHATN button.
- Press and hold CHATN for about 2 seconds until the message "Channel Memorized" appears on-screen. The channel has been programmed to the CHATN button.
- **3** You can then change channels repeatedly, and when you press ^{CHFIN}, the memorized channel will be tuned.

The TV will return to the memorized channel one time only. Once you press ^{CHETN} and then change channels again, the CH RTN memory will be cleared and the button will function as Channel Return, by switching back and forth between the last two channels that are tuned. This feature also works for external inputs.

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Selecting the picture size

You can view many program formats in a variety of picture sizes—Natural, TheaterWide 1, TheaterWide 2, TheaterWide 3, Full, and 4:3 HD.

Note: The "picture size" illustrations are examples only. The format of the image (in any of the picture sizes) will vary depending on the format of the signal you are currently watching. Select the picture size that displays the current program the way that looks best to you.

You can save separate picture size preferences for each input on your TV.

To select the picture size using the remote control:

- **1** Press $\stackrel{\mathsf{PIC SIZE}}{\bigcirc}$ on the remote control.
- **2** While the **Picture Size** screen is open, you can do one of the following to select the desired picture size:
 - Repeatedly press O
 - Press the corresponding Number button (0–5) while the **Picture Size** screen is open.
 - Press ▲ or ▼ while the **Picture Size** screen is open.



To select the picture size using the menus:

- **1** Select **Picture Size** in the **Theater Settings** menu.
- **2** Press \triangleleft or \triangleright to select the desired picture size setting.
- **3** Highlight **Done** and press **IPP**.

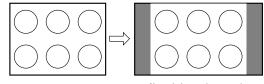
Theater Settings		I	Node: Sport
Picture Size		Full	
Picture Scro		 	
Cinema Mod	le	Film	
Auto Aspect	Ratio	On	
	Reset	Done	

Note: Some of the picture sizes may not be available depending on the receiving signal format (those will be "grayed out" in the **Picture Size** screen).

Using these functions to change the picture size (i.e., changing the height/ width ratio) for any purpose other than your private viewing may be prohibited under the Copyright Laws of the United States and other countries, and may subject you to civil and criminal liability. **Note:** If you select one of the TheaterWide[®] picture sizes, the top and bottom edges of the picture (including subtitles or captions) may be hidden. To view the hidden edges, either scroll the picture (**TheaterWide 2** and **3** only) or try viewing the program in **Full** or **Natural** picture size.

Natural picture size

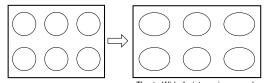
• The image is displayed close to its originally formatted proportion. Some program formats will display with sidebars and/or bars at the top and bottom.



Natural picture size example

TheaterWide 1 picture size (for 4:3 format programs)

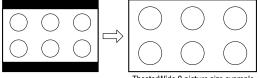
• The center of the picture remains close to its original proportion, but the left and right edges are stretched wider to fill the screen.



TheaterWide 1 picture size example

TheaterWide 2 picture size (for letter box programs)

- The picture is stretched wider to fill the width of the screen, but only slightly stretched taller.
- The top and bottom edges of the picture may be hidden. To view the hidden areas, see "Scrolling the TheaterWide[®] picture" (137) page 42).



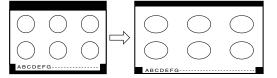
TheaterWide 2 picture size example

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TheaterWide 3 picture size (for letter box programs with subtitles)

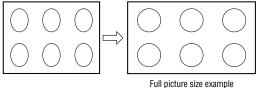
- The picture is stretched wider to fill the width of the screen, • but only slightly stretched taller.
- The top and bottom edges are hidden. To view the hidden areas (such as subtitles or captions), see "Scrolling the TheaterWide® picture."



TheaterWide 3 picture size example

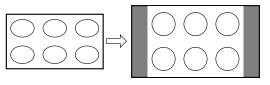
Full picture size (for 16:9 [480i, 480p] source programs only)

- If receiving a squeezed 4:3 format program, the picture is stretched wider to fill the width of the screen, but not stretched taller.
- None of the picture is hidden. ٠



4:3 HD picture size (for 720p, 1080i, and 1080p program sources only)

- Sidebars fill the empty vertical spaces.
- · Picture is not distorted from original size.



4:3 HD picture size example

Scrolling the TheaterWide® picture (TheaterWide 2 and 3 only)

You can set separate scroll settings for the TheaterWide 2 and TheaterWide 3 modes for each input.

To set the scroll settings:

- 1 Press \bigcirc^{MENU} and open the **Video** menu.
- 2 Highlight Theater Settings and press m.



- 3 In the Picture Size field, select either TheaterWide 2 or TheaterWide 3 (you cannot scroll in any other mode).
- 4 Press ▼ to highlight the **Picture Scroll** field.
- 5 Press \blacktriangleleft or \triangleright to scroll the picture up and down as needed, from -10 to +20.

Theater Settings	Mode: Sport	
Picture Size	TheaterWide 2	
Picture Scroll	-5	
Cinema Mode	Film	
Auto Aspect Ratio	On	
Reset	Done	

6 To save the new settings, highlight **Done** and press m. To revert to the factory defaults, highlight Reset and press (MEB).

Using the auto aspect ratio feature

When the auto aspect ratio feature is set to **On**, the TV will automatically select the picture size when one of the following input sources is received:

- A 480i signal from the VIDEO 1, VIDEO 2, ColorStream HD-1, or ColorStream HD-2 input.
- A 480i, 480p, 720p, 1080i, 1080p, or VGA signal from the HDMI input.

Aspect ratio of signal source	Automatic aspect size (automatically selected when Auto Aspect is On)
4:3 normal	Natural (with sidebars)
4:3 letter box	TheaterWide 2
16:9 full	Full
Not defined (no ID-1 data or HDMI aspect data)	The current picture size you set under "Selecting the picture size" on page 41.

Note: The auto aspect ratio feature is not applicable to antenna or cable input sources.

To turn on the auto aspect ratio feature:

- **1** Press $\stackrel{\text{MENU}}{\bigcirc}$ and open the **Video** menu.
- 2 Highlight Theater Settings and press m.
- **3** In the Auto Aspect Ratio field, select **On**.

heater Settings		Mod	le: Spo
Picture Size		Natural	
Picture Scroll		-	
Cinema Mode		Film	
Auto Aspect Ratio	•	On	Þ
Auto Aspect Ratio	•	On	
Reset		Done	

4 To save the new settings, highlight Done and press (m). To revert to the factory defaults, highlight Reset and press (m).

To turn off the auto aspect ratio feature: Select **Off** in step 3 above.

Selecting the cinema mode (480i and 1080i signals)

When you view a DVD (3:2 pulldown processed) from a DVD player connected to the **VIDEO 1**, **VIDEO 2**, **ColorStream HD-1**, **ColorStream HD-2** (component video), or **HDMI** inputs on the TV, smoother motion can be obtained by setting the **Cinema Mode** to **Film**.

To set the Cinema Mode to Film:

- **1** Press ^{MENU} and open the **Video** menu.
- 2 Highlight Theater Settings and press IPP.
- **3** In the **Cinema Mode** field, select **Film**.

Theater Settings		Mod	le: Sports
Picture Size		Natural	
Picture Scroll			
Cinema Mode	•	Film	►
Auto Aspect Ratio		On	
Reset		Done	

4 To save the new settings, highlight Done and press m. To revert to the factory defaults, highlight Reset and press m.

To set the Cinema Mode to Video: Select **Video** in step 3 above.

Adjusting the picture

Selecting the picture mode

You can select your desired picture settings from four different modes, as described below.

Mode	Picture Quality
Sports	Bright and dynamic picture (factory setting)
Standard	Standard picture settings (factory setting)
Movie	Lower contrast for darkened room (factory setting)
Preference	Your personal preferences

To select the picture mode:

Press ^{PIC MODE} on the remote control. The following popup menu appears on-screen.

Sports
Standard
Movie
Preference

Press \blacktriangle or \blacktriangledown to select the picture mode you prefer and press m.

To select the picture mode using the menu system:

- **1** Press $\stackrel{\text{MENU}}{\bigcirc}$ and open the **Video** menu.
- **2** Highlight **Mode** and press **IPP**.



3 Press \blacktriangle or \blacktriangledown to select the picture mode you prefer and press m.

Sports	
Standard	
Movie	
Preference	

Note: The picture mode you select affects the current input only. You can select a different picture mode for each input.

Adjusting the picture quality

You can adjust the picture quality (Contrast, Brightness, Color, Tint, and Sharpness) to your personal preferences.

Selection	Pressing ◀	Pressing 🕨
Contrast	lower	higher
Brightness	darker	lighter
Color	paler	deeper
Tint	reddish	greenish
Sharpness	softer	sharper

To adjust the picture quality:

1 Press O and open the **Video** menu.

Contrast

- 2 Highlight Picture Settings and press m.
- 3 Press ▲ or ▼ to select the picture quality you want to adjust (Contrast, Brightness, Color, Tint, or Sharpness), and then press ◄ or ▶ to adjust the setting, as described in the table above.

Contrast 100	Picture Settings					Mode: Sports
Color 50 D Tint 0 0 0 Sharpness 50 0 0		Contrast		100		0
Tint 0 Sharpness 50		Brightness		50		-0
Sharpness 50		Color		50		-0
		Tint		0		-0
Advanced Picture Settings		Sharpness		50		-0
		Advanced F	Picture Setting	s		
Reset Done			Reset		Done	

4 To save the new settings, highlight **Done** and press . You can use any of the picture modes (IPS "Selecting the picture mode," above left) as a starting point for adjusting the picture settings.

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To revert back to the base mode that you began adjusting the picture settings from, highlight **Reset** and press in the setting from the picture se

The picture qualities you adjusted are automatically saved in the **Preference** mode (ISF "Selecting the picture mode," above left) until **Reset** is selected.

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Using the closed caption mode

Base closed captions

The closed caption mode has two options:

- Captions—An on-screen display of the dialogue, narration, and sound effects of TV programs and videos that are closed captioned (usually marked "CC" in program guides).
- Text—An on-screen display of information not related to the current program, such as weather or stock data (when provided by individual stations).

To view captions or text:

- **1** Press ^{MENU} and open the **Preferences** menu.
- 2 Highlight Base CC Mode and press ►.
- **3** Press \blacktriangle or \blacktriangledown to select the desired closed caption mode and press m.

references		
CC Selector		
Base CC Mode	Off	Off
Digital CC Settings		CC1
nput Labeling		CC2
Channel Labeling		CC3
Venu Language	English	CC4
Channel Browser Setup		T1
		T2
		Т3
		T4

- To view captions:
- Highlight **CC1**, **CC2**, **CC3**, or **CC4**. (**CC1** displays translation of the primary language in your area.)



Note: If the program or video you selected is not closed captioned, no captions will display on-screen.

To view text: Highlight **T1**, **T2**, **T3**, or **T4**.



Note: If text is not available in your area, a black rectangle may appear on screen. If this happens, set the Base CC Mode to **Off**.

• To turn off the closed caption mode: Select Off in step 3 above. **Note:** A closed caption signal may not display in the following situations:

- When a videotape has been dubbed
- When the signal reception is weak
- · When the signal reception is non-standard

Digital CC Settings

You can customize the closed caption display characteristics by changing the background color, text size, type, edge, and color.

Note:

- This feature is available for digital channels only.
- You cannot set the Caption Text and Background as the same color.

To customize the closed captions:

- **1** Press on and open the **Preferences** menu.
- 2 Highlight Digital CC Settings and press m.
- 3 Press ▲ or ▼ to highlight the characteristic you want to change, and then press ◀ or ► to select the format for that characteristic (see table below).

Auto	•	
Auto		
ABC123		— Preview window
Done		
	Auto Auto Auto Auto Auto Auto	Auto Auto Auto Auto Auto ABC123

4 To save the new settings, highlight Done and press m. To revert to the factory defaults, highlight Reset and press m.

Caption Size	Auto, Small, Standard, Large
Caption Text Type	Auto, Default, Mono w. Serif, Prop. w. Serif, Mono w/o Serif, Prop. w/o Serif, Casual, Cursive, Small Capitals
Caption Text	Auto, None, Raised, Depressed, Uniform,
Edge	Left Drop Shadow, Right Drop shadow
Caption Text	Auto, Black, White, Red, Green, Blue,
Color	Yellow, Magenta, Cyan
Background	Auto, Black, White, Red, Green, Blue,
Color	Yellow, Magenta, Cyan
Caption Text	Auto, Black, White, Red, Green, Blue,
Edge Color	Yellow, Magenta, Cyan

CC Selector

You can use the **CC Selector** to temporarily override the default analog caption mode (set in **Base CC Mode**) for a particular channel. However, once you change to another analog channel, the closed caption setting will automatically change back to the current **Base CC Mode** setting.

You can also use the **CC Selector** to select digital closed caption services (if available). When such services are not available, the **CC Selector** presents a default list of services. If the selected service is not available, the next best service will be used instead.

To select closed captions:

- **1** Press ^{MENU} and open the **Preferences** menu.
- 2 Highlight CC Selector and press in.



3 Press \blacktriangle or \forall to select **Closed Caption**, and then press \triangleleft or \triangleright to select the desired service.



4 Press \bigcirc^{EXIT} .

Adjusting the audio

Muting the sound

Press $\overset{\text{MUTE}}{\bigcirc}$ to partially reduce (1/2 MUTE) or turn off (MUTE) the sound. Each time you press $\overset{\text{MUTE}}{\bigcirc}$, the mute mode will change in the following order:

 \rightarrow 1/2 Mute \rightarrow Mute \rightarrow Volume \rightarrow

If the closed caption mode is set to **Off** when you select "MUTE" mode, the closed caption feature is automatically activated. To mute the audio without automatically activating the closed caption feature, use [vol] to set the volume to 0. See "Using the closed caption mode" (res page 45) for more information on closed caption modes.

Using the digital audio selector

You can use the **Digital Audio Selector** to conveniently switch between audio tracks on a digital channel (for those channels that have multiple audio tracks). This temporarily overrides the audio track chosen by the language option under **Audio Setup** (INST "Selecting stereo/SAP broadcasts" on page 47).

To use the digital audio selector:

- **1** Press O and open the **Audio** menu.
- 2 Highlight Digital Audio Selector and press em.



3 Press \blacktriangle or \checkmark to select **Audio**, and then press \blacktriangleleft or \triangleright to select the desired service.

CC 1

Closed Caption	
Audio	

4 Press ^{EXIT}.

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Selecting stereo/SAP broadcasts

The multi-channel TV sound (MTS) feature allows you to output high-fidelity stereo sound. MTS also can transmit a second audio program (SAP) containing a second language, music, or other audio information (when provided by individual stations).

When the TV receives a stereo or SAP broadcast, the word "STEREO" or "SAP" appears on-screen when ^{RECALL} is pressed. The MTS feature is not available when the TV is in VIDEO mode.

To listen to stereo sound:

- **1** Press O and open the **Audio** menu.
- 2 Highlight Audio Setup and press Im.



3 In the **MTS** field, select **Stereo**.

A	udio Setu	р			
	PC Audio			No	
	HDMI 1 Aud	dio		Auto	
	MTS		•	Stereo	►
	Language			English	
	Optical Out	put Format		Dolby Digital	
	Dolby Digita Dynamic Ra	al ange Control		Compressed	
		Reset		Done	

4 To save the new settings, highlight Done and press m. To reset the settings to the factory defaults, highlight Reset and press m.

Note:

- You can typically leave the TV in Stereo mode because it will automatically output the type of sound being broadcast (stereo or monaural).
- If the stereo sound is noisy, select Mono to reduce the noise.

To listen to an alternate language on an ATSC digital station (if available):

Highlight the **Language** field in step 3 above, and then press \triangleleft or \triangleright to select the language you prefer.

To listen to a second audio program on an analog station (if available):

Select **SAP** in step 3 above.

Note:

- A second audio program (SAP) can be heard only on those TV stations that offer it. For example, a station might broadcast another language as a second audio program. If you have SAP on, you will see the current program on the screen but hear the other language instead of the program's normal audio.
- If you have SAP on and the station you are watching is not broadcasting a second audio program, the station's normal audio will be output. However, occasionally there is no sound at all in SAP mode. If this happens, set the MTS feature to Stereo mode.

Adjusting the audio quality

You can adjust the audio quality by adjusting the bass, treble, and balance.

To adjust the audio quality:

- **1** Press $\stackrel{\text{MENU}}{\bigcirc}$ and open the **Audio** menu.
- 2 Highlight Audio Settings and press Im.
- 3 Press ▼ or ▲ to highlight the item you want to adjust (Bass, Treble, or Balance).

udio Settin	gs				
Bass		100	-		-0
Treble		100			0
Balance		0		-0	
StableSound			(Off	
	Reset		Done		

- 4 Press \triangleleft or \triangleright to adjust the level.
 - Imakes the bass or treble weaker or increases the balance in the left channel (depending on the item selected).
 - makes the bass or treble stronger or increases the balance in the right channel (depending on the item selected).
- 5 To save the new settings, highlight Done and press m. To reset the settings to the factory defaults, highlight Reset and press m.

Using the StableSound® feature

The StableSound[®] feature limits the highest volume level to prevent extreme changes in volume when the signal source changes (for example, to prevent the sudden increase in volume that often happens when a TV program switches to a commercial).

To turn on the StableSound® feature:

- **1** Press $\stackrel{MENU}{\bigcirc}$ and open the **Audio** menu.
- 2 Highlight Audio Settings and press Im.
- **3** In the **StableSound** field, select **On**.

A	udio Setti	ngs			
	Bass		100		0
	Treble		100		0
	Balance		0	0	
	StableSoun	d	•	On	•
		Reset		Done	

4 To save the new settings, highlight Done and press in. To revert to the factory defaults, highlight Reset and press in.

Note: The RESET function returns your audio adjustments to the following factory settings:

Bass center (50) Treble center (50) Balance center (0) StableSound .. Off

To turn off the StableSound feature:

Select **Off** in step 3 above.

Selecting the optical audio output format

You can use this feature to select the optical audio output format when you connect a Dolby Digital decoder or other digital audio system to the **Optical Audio Out** terminal on the TV (see "Connecting a digital audio system" on page 20).

To select the optical audio output format:

- **1** Press $\stackrel{\text{MENU}}{\bigcirc}$ and open the **Audio** menu.
- 2 Highlight Audio Setup and press m.

3 In the **Optical Output Format** field, select either **Dolby Digital** or **PCM**, depending on your device.

Audio Setup	
PC Audio	No
HDMI 1 Audio	Auto
MTS	Stereo
Language	English
Optical Output Format	Dolby Digital
Dolby Digital Dynamic Range Control	Compressed
Reset	Done

4 To save the new settings, highlight Done and press m. To revert to the factory defaults, highlight Reset and press m.

Using the Dolby® Digital Dynamic Range Control feature

This dynamic range control feature causes the ATSC dynamic range to be further compressed, allowing you to switch from ATSC to analog broadcasts at the same dynamic range.

To use the Dolby Digital Dynamic Range Control:

- **1** Press ^{MENU} and open the **Audio** menu.
- 2 Highlight Audio Setup and press Im.
- **3** In the **Dolby Digital Dynamic Range Control** field, select **Compressed**. When **Standard** is selected, the audio is output with minimal compression.

Audio Setup	o			
PC Audio			No	
HDMI 1 Aud	lio		Auto	
MTS			Stereo	
Language			English	
Optical Outp	out Format		Dolby Digital	
Dolby Digit Dynamic Ra	al ange Control	٩	Compressed	Þ
	Reset		Done	

4 To save the new settings, highlight Done and press in To revert to the factory defaults, highlight Reset and press in.

Note:

- This item will be grayed out for NTSC signals, Video, ColorStream, and PC inputs.
- The Dolby Digital Dynamic Range Control will function in relation to Optical Output Format (PCM mode).

Using the Locks menu

The Locks menu includes the Enable Rating Blocking, Edit Rating Limits, Channels Block, Input Lock, Front (control) Panel Lock, and New PIN Code features. You can use these features after entering the correct PIN code.

Entering the PIN code

1 Press on and highlight the **Locks** menu icon.

	ĘŢ	ß	Ö
Locks			
Enable Rating Blocking	Off		
Edit Rating Limits			
Channels Block			
Input Lock	Off		
Front Panel Lock	Off		
New PIN Code			

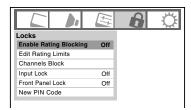
2 Press ▼, which displays the PIN code entry screen.
 The Lock System screen (below) appears if a PIN code has not been stored. Press the Channel Number buttons to enter a new four-digit code, enter the code a second time to confirm, and press m.

Lock System	
Please enter a 4	
Confirm F	PIN code
Cancel	Done
Cancel	Done

The Locks/Active screen (below) appears if the PIN code is already stored. Use the Number buttons to enter your four-digit code and press in.

Locks	Active	
Please enter the 4 digit PIN code		
* *	* *	
Cancel	Done	

If the wrong PIN code is entered, the message "Incorrect PIN code, please try again!" appears. Highlight **Retry** and press . Enter the code again and press . When the correct PIN code is entered, the Locks menu opens.

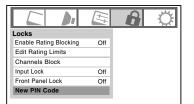


If you cannot remember your PIN code

While the PIN code entering screen is displayed, press of the pIN code will be cleared and you can enter a new PIN code.

Changing your PIN code

- **1** Press O and highlight the **Locks** menu icon.
- **2** Press \checkmark to display the PIN code entering screen.
- 4 Press ▼ to highlight New PIN Code and press .



- **5** Press the Number buttons to enter a new four-digit code. Reenter the PIN code to confirm it.
- 6 Press I. The new PIN code is now active.

lew PIN Code
Please enter a 4 digit PIN code
Cancel Done

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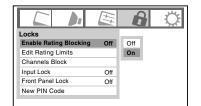
Blocking TV programs and movies by rating (V-Chip)

Some TV programs and movies include signals that classify the content of the program (violence, sex, dialog, language). The V-Chip feature in this TV detects the signals and blocks the programs according to the ratings you select. (For rating descriptions, see the tables on the next page.)

Note: Rating blocking is a function of the V-Chip feature in this TV, which supports the U.S. V-Chip system only.

To block and unblock TV programs and movies:

- **1** Press of and highlight the **Locks** menu icon.
- **2** Press \checkmark to display the PIN code entering screen.
- **3** Enter your four-digit PIN code and press m.
- 4 Press ▼ to highlight Enable Rating Blocking.
- **5** Press \blacktriangleright and \checkmark to select **On**, and then press \blacksquare .



- 6 Press ▼ to highlight Edit Rating Limits and press . The Edit Rating Limits screen (below) appears.
- 7 Press ▲▼◀▶ and then press to select the level of blocking you prefer. A box with an "X" is a rating that will be blocked. As you highlight a rating, a definition for the rating appears at the bottom of the screen.
- **8** When done selecting the ratings you want to block, highlight **Done** and press is.

TV (V-CHIP) FV	D	L	s	٧	Movies	
TV-Y	٠	٠	٠	٠	٠	G	Children
TV-Y7		٠	٠	٠	٠	PG PG	Youth
TV-G	٠	٠	٠	٠	٠	PG-13	
TV-PG	٠	1	\checkmark	V	\checkmark	⊠R	
🖾 TV-14	٠					NC-17	Alt RS
🖾 TV-MA	٠	٠				ШX	Cancel
VNone"	Rate	d					Done

Downloading an additional rating system for blocking TV programs and movies

In the future, an additional rating system may become available for use in selectively blocking programs.

Note: The currently tuned station must be receiving a digital signal before an additional rating system can be downloaded.

To download the additional rating system (if available):

- **1** Press $\overset{MENU}{\bigcirc}$ and highlight the **Locks** menu icon.
- **2** Press \checkmark to display the PIN code entering screen.
- **3** Enter your four-digit PIN code and press I.
- 4 Press ▼ to highlight Enable Rating Blocking.
- **5** Press \blacktriangleright and \checkmark to select **On**, and press \blacksquare .
- 6 Press ▼ to highlight Edit Rating Limits and press . The Edit Rating Limits screen appears.
- 7 Highlight Alt RS and press 📾. The Edit Alternate Ratings screen will appear.

Note:

- The Alt RS button will only be available if an additional rating system is currently available.
- It may take several minutes for the TV to download the additional rating system.
- The information displayed in the Alternate Ratings screen will depend on the configuration of the additional rating system available at the time of download.
- 8 Press ▲ ▼ ◀ ► and then press to select the level of blocking you prefer. A box with an "X" is a rating that will be blocked.
- **9** When you are finished selecting the ratings you want to block, highlight **Done** and press **(FP)**.
- **10** In the **Edit Rating Limits** screen, highlight **Done** and press is.

Note:

- The additional rating system can only be downloaded one time. You will not be able to download any updates to the rating system should such updates become available.
- The additional rating system is not designed, transmitted, or controlled by the TV or Toshiba, nor is the availability of an additional rating system determined or controlled by Toshiba. Similarly, the rating of programs in an additional rating system is not determined, transmitted, or controlled by the TV or Toshiba.
- The additional rating system is an evolving technology; therefore, availability, content, and format may vary.

Independen	Independent rating system for broadcasters				
Ratings	Description and Content themes				
TV-MA	Mature Audience Only (This program is specifically designed to be viewed by adults and therefore may be unsuitable for children under 17.) L) Crude or indecent language S) Explicit sexual activity V) Graphic violence				
TV-14	Parents Strongly Cautioned (This program contains some material that many parents would find unsuitable for children under 14 years of age.) D) Intensely suggestive dialog L) Strong, coarse language S) Intense sexual situations V) Intense violence				
TV-PG	Parental Guidance Suggested (This program contains material parents may find unsuitable for younger children.) D) Some suggestive dialog L) Infrequent coarse language S) Some sexual situations V) Moderate violence				
TV-G	General Audience (Most parents would find this program suitable for all ages.)				
TV-Y7, TV-Y7FV	Directed to Older Children (This program is designed for children age 7 and above. Note: Programs in which fantasy violence may be more intense or more combative than other programs in this category are designated TV-Y7FV.)				
тү-ү	All Children (This program is designed to be appropriate for all children.)				

Independent rating system for movies				
Ratings	Description and Content themes			
Х	X-rated (For adults only)			
NC-17	Not intended for anyone 17 and under			
R	Restricted (Under 17 requires accompanying parent or adult)			
PG-13	Parents Strongly Cautioned (Some material may be inappropriate for children under 13)			
PG	Parental Guidance Suggested (Some material may not be suitable for children)			
G	General Audience (Appropriate for all ages)			

Note:

- If you place an "x" in the box next to " 'None' Rated," programs rated "None" will be blocked; however, programs that do not provide any rating information will not be blocked.
- To display the rating of the program you are watching, press
 RECALL on the remote control. If it is rated "None," the word
 "NONE" appears in the **RECALL** screen (as shown below
 right). If rating information is not provided, no rating will
 appear in the **RECALL** screen.

TV-PG L V	NONE
I	

Blocking channels

With the Channels Block feature, you can block specific channels. You will not be able to tune blocked channels unless you unlock them.

To block channels:

- **1** Press $\overset{MENU}{\bigcirc}$ and highlight the **Locks** menu icon.
- **2** Press \checkmark to display the PIN code entering screen.
- 4 Press ▼ to highlight Channels Block and then press m. A list of the channels available for that input will be displayed along with the call letters for each channel, if available.

		$\sim c$
Off		
Off		
Off		
	Off	Off

5 Press ▲▼ to highlight the channel you want to block and press , which puts an "×" in the box next to that channel.

Channe	els Bloo	:k	
▲ 🖂	1	-	
	2	-	
	3	-	
\times	4	-	
	5	-	
\times	6	-	
\times	7	-	Allow All
	8	-	Block All
\times	9	-	Cancel
v 🗆	10	-	Done

- **6** Repeat step 5 for other channels you want to block.
- 7 Highlight **Done** and press **m**.

To unblock individual channels:

In step 5 above, press $\blacktriangle \nabla$ to highlight the channel you want to unblock, press is to remove the "X" from the box, highlight **Done** and press is.





HM117 (E/F) Web 213:27

To block all channels at once:

Highlight **Block All** in step 5 on previous page and then highlight **Done** and press 🗐.

To unblock all locked channels at once:

Highlight **Allow All** in step 5 on previous page and then highlight **Done** and press **(**).

Ch	anne	ls Bloc	k	
		1	-	
		2	-	
		3	-	
		4	-	
		5	-	
		6	-	
		7	-	Allow All
		8	-	Block All
		9	-	Cancel
•		10	-	Done

Unlocking programs temporarily

If you try to tune the TV to a program that exceeds the rating limits you set, the TV will enter program lock mode and the following message will appear on-screen:

> This program exceeds the rating limit you set. Push 'mute' to enter PIN.

You can either temporarily unlock the program or select an unlocked program to watch.

To temporarily unlock the program:

- 1 Press O.
- 2 Enter your four-digit PIN code and press . If the correct code is entered, the program lock mode is released and the normal picture appears. All locking is disabled until the TV is turned off, and will be enabled when the TV is turned on again.



Using the input lock feature

You can use the Input Lock feature to lock the video inputs (VIDEO 1, VIDEO 2, ColorStream HD-1, ColorStream HD-2, HDMI 1, HDMI 2, HDMI 3 and PC) and channels 3 and 4. You will not be able to view the input sources or channels until you unlock the inputs.

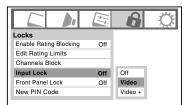
To lock/unlock the video inputs:

- **1** Press on and highlight the **Locks** menu icon.
- **2** Press \checkmark to display the PIN code entering screen.
- **3** Enter your four-digit PIN code and press m.
- **4** Press \checkmark to highlight **Input Lock** and press \blacktriangleright .
- 5 Press ▲ or ▼ to select the level of video input locking you prefer, as described below.

Video: Locks VIDEO 1, VIDEO 2, ColorStream HD1/ HD2, HDMI 1, HDMI 2, HDMI 3, and PC.

Video+: Locks VIDEO 1, VIDEO 2, ColorStream HD1/ HD2, HDMI 1, HDMI 2, HDMI 3, PC and channels 3 and 4.

 Select Video+ if you play video tapes via an ANT input.



Off: Unlocks all video inputs and channels 3 and 4.

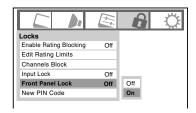
6 Press Im.

Using the control panel lock feature

You can lock the control panel to prevent your settings from being changed accidentally (by children, for example). When the control panel lock is **On**, none of the controls on the TV control panel will operate except **POWER**.

To lock the control panel:

- **1** Press $\stackrel{\text{MENU}}{\bigcirc}$ and highlight the **Locks** menu icon.
- **2** Press $\mathbf{\nabla}$ to display the PIN code entering screen.
- 3 Enter your four-digit PIN code and press 📾.
- 4 Press **▼** to highlight **Front Panel Lock**.
- 5 Press ► and ◄ or ► to highlight On and press I. When the control panel is locked and any button on the control panel (except POWER) is pressed, the message "Not Available" appears.



To unlock the control panel:

Highlight **Off** in step 5 above, or press and hold the **VOLUME** – button on the TV control panel for about 10 seconds until the volume icon appears.

Using the PC settings feature

You can view an image from a PC on the TV screen. When a PC is connected to the TV's PC IN terminal, you can use the PC Settings feature to make adjustments to the image. If the edges of the picture are cut off, readjust the **Horizontal Position** and **Vertical Position**. If the picture is affected by interference, readjust the **Clock Phase** and **Sampling Clock**.

To adjust the PC settings:

- Repeatedly press in to select PC input mode (is: "Selecting the video input source to view" page 37).
- **2** Press $\overset{\text{MENU}}{\bigcirc}$ and open the **Setup** menu.
- 3 Highlight PC Settings and press m.

	ŢŢ	6	Ċ
Setup			
Installation			
Sleep Timer			
PC Settings			
Power-On Mode	Fast		

Note: If a PC is not connected or there is no pc input signal, this feature will be grayed out in the **Setup** menu.

- 4 Press \blacktriangle or \checkmark to highlight the item you want to adjust.
- **5** Press \triangleleft or \triangleright to make the appropriate adjustments.

C Settings				
Horizontal I	Position	0		0
Vertical Pos	ition	0		-0
Clock Phase		0		-0
Sampling Cl	ock	0		-0
	Reset		Done	

Note: The screen is disrupted momentarily when adjusting the PC settings. This is not a sign of malfunction.

• Horizontal Position: Moves the picture left/right.

The adjustment range is within ± 10 from center.*

Vertical Position:

Moves the picture up/down. The adjustment range is within ± 10 from center.*

- Clock Phase: Helps to reduce noise and sharpen the picture.
- The adjustment range is within ±4 from center.* **Sampling Clock:**
- Helps to reduce noise and minimize periodic vertical stripes on the screen.

The adjustment range is within ±5 from center.*

* The default settings may vary depending on the input signal format.

Setting the PC Audio

This function allows you to output the sound from your PC (if connected) or mute the sound from your PC and output the sound from your HDMI (DVI) connection. (In page 21)

To set the PC Audio:

- **1** Press O and open the **Audio** menu.
- 2 Highlight Audio Setup and press m.
- 3 Press ▲ or ▼ to select PC Audio and then press ◀ or ► to select No or Yes.

Yes: Outputs the sound from your PC. **No:** Mutes the sound from your PC, and outputs the sound from the HDMI-1 connection.

udio Setup			
PC Audio	∢ No ►		
HDMI 1 Audio	Auto		
MTS	Stereo		
Language	English		
Optical Output Format	Dolby Digital		
Dolby Digital Dynamic Range Control	Compressed		
Reset	Done		

Note: Because the PC and HDMI-1 inputs share the same set of analog audio inputs, the PC Audio menu setting influences the HDMI 1 Audio menu setting. If PC Audio is set to "No," the HDMI 1 Audio setting changes to "Auto." If PC Audio is set to "Yes," the HDMI 1 Audio setting is set to "Digital" and is grayed out in the menu. (Also see item 3 on page 12 and "Setting the HDMI™ Audio mode" on page 34.)

Setting the sleep timer

You can set the sleep timer to turn off the TV after a set length of time (maximum of 180 minutes).

To set the sleep timer using the remote control:

Press $\stackrel{\text{sLEEP}}{\bigcirc}$ on the remote control to set the length of time until the TV turns off. Repeatedly press $\stackrel{\text{sLEEP}}{\bigcirc}$ to increase the time in 10-minute increments, or press \blacktriangle or \checkmark to increase or decrease the time in 10-minute increments, to a maximum of 180 minutes.

To set the sleep timer using the on-screen menus:

- **1** Press $\overset{\text{MENU}}{\bigcirc}$ and open the **Setup** menu.
- 2 Highlight Sleep Timer and press m.

	ŢŢ	6	Ö
Setup			
Installation			
Sleep Timer			
PC Settings			
Power-On Mode	Fast		

3 Press the Number buttons to enter the length of time in 10-minute increments.

Sleep Timer					
Enter total minutes until the TV turns off automatically (Maximum 180 minutes)					
1	2 0				
Cancel	Done				

4 Highlight **Done** and press **m**.

Note: When a power failure occurs, the sleep timer setting may be cleared.

To display the remaining sleep time: Press ^{SLEEP}.

s	Sleep Timer	
	A	
	120 minutes	I
	V	

Note: A message will display on-screen when there is one minute remaining on the sleep timer.

To cancel the sleep timer:

Repeatedly press \bigcirc^{SLEEP} until it is set to 0 minute.

Displaying TV status information

To display TV status information using RECALL:

Press \bigcirc^{RECALL} on the remote control.

- The following information will display (if applicable):
- Current input (ANT, VIDEO 1, etc.)
- If ANT is the current input, either "CABLE" (for cable TV) or "ANT" (for over-the-air broadcasts).
- Channel number (if in ANT mode)
- Channel label (if set)
- Digital signal strength indicator (bar graph in lower right corner of box; for ATSC signal only)
- Stereo, Mono or SAP audio status (when HDMI input mode, Dolby Digital or PCM)
- Video resolution
- Aspect ratio of incoming video signal (4:3 or 16:9)
- V-Chip rating status
- Lamp Mode (🍟 : High Bright)



To close the RECALL screen:

Press Call again.

To display TV status information using INFO:

Press $\overset{\text{INFO}}{\bigcirc}$ on the remote control.

The following additional information will display for off air digital channels (if applicable):

- Title
- Duration
- Detailed description



Note: The location of the banner can be moved to the top or bottom of the screen by pressing \blacktriangle or \checkmark while the RECALL or INFO display is on-screen. (The last position will be stored to memory.)

Understanding the auto power off feature

The TV will automatically turn itself off after approximately 15 minutes if it is tuned to a vacant channel or a station that completes its broadcast for the day. This feature functions in **ANT** mode only.

Understanding the last mode memory feature

If the power is cut off while you are viewing the TV, the Last Mode Memory feature automatically turns on the TV when the power is resupplied.

Note: You should unplug the TV's power cord if it is possible that you will be away from the TV for an extended period of time after the power is restored.



Using the advanced picture settings features

Using dynamic contrast

When dynamic contrast is set to **Low**, **Middle**, or **High**, the TV will detect changes in the picture quality that affect the appearance of your contrast settings and then automatically adjust the video.

To select dynamic contrast preferences:

- **1** Press O and open the **Video** menu.
- 2 Highlight Picture Settings and press .



3 Highlight Advanced Picture Settings and press .

Ρ	icture Sett	ings			Mode: Sports
Г	Contrast		100		0
	Brightness		50		-0
	Color		50		-0
	Tint		0		-0
	Sharpness		50		-0
	Advanced	Picture Settir	ngs		
		Reset		Done	

4 In the Dynamic Contrast field, select either Off, Low, Middle or High.

A	dvanced F	Picture Sett	lings	Mode: Pro	eference
	Dynamic C	ontrast	•	Off	►
	Static Gam	ma	0	O	_
	Color Temp	erature		Cool	
	Lamp Mode	3		High Bright	
		Reset		Done	

5 To save the new settings, highlight **Done** and press (m). To revert to the factory defaults, highlight **Reset** and press (m).

Note: If you select one of the factory-set picture modes (**Sports**, **Standard**, or **Movie**) and then change the dynamic contrast setting, the picture mode automatically changes to **Preference**.

Using the static gamma feature

The static gamma feature allows you to adjust the levels of black in the picture.

To adjust the static gamma settings:

- **1** Press \bigcirc^{MENU} and open the Video menu.
- 2 Highlight Picture Settings and press m.

		ŢŢ	6	Ö
Video				
Mode		Sports		
Picture Settin	ngs			
Noise Reduct	on			
Game Mode		Off		
Theater Settir	igs			

3 Highlight Advanced Picture Settings and press in 3

victure Set	tings			Mode:	Sports	
Contrast		100			-0	
Brightness		50		0	-	
Color		50		0	-	
Tint		0		0	-	
Sharpness		50		-0	-	
Advanced	Picture Settir	ngs				
	Reset		Done			

4 In the **Static Gamma** field, press **◄** or **▶** to adjust the static gamma.

The adjustment range is within ± 5 from center.

Advanced Picture Setti	ings	Mode: Preference
Dynamic Contrast		High
Static Gamma	0	0
Color Temperature		Cool
Lamp Mode		High Bright
Reset		Done

- If the setting is moved in the minus direction, the detail of black colors will be decreased.
- If the setting is moved in the plus direction, the detail of black colors will be increased.
- 5 To save the new settings, highlight Done and press is. To revert the factory defaults, highlight Reset and press is.

Note: If you select one of the factory-set picture modes (**Sports**, **Standard** or **Movie**) and then change the static gamma setting, the picture mode automatically changes to **Preference**.

Chapter 7: Using the TV's advanced features

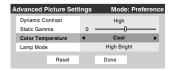
Selecting the color temperature

You can change the quality of the picture by selecting from three preset color temperatures (Cool, Medium, and Warm), as described below.

Mode	Picture Quality
Cool	blueish
Medium	neutral
Warm	reddish

To select the color temperature:

- **1** Press \bigcirc^{MENU} and open the Video menu.
- 2 Highlight Picture Settings and press IPP.
- 3 Highlight Advanced Picture Settings and press .
- 4 In the Color Temperature field, select the mode you prefer (Cool, Medium, or Warm).



5 To save the new settings, highlight Done and press m. To revert to the factory defaults, highlight Reset and press m.

Note: If you select one of the factory-set picture modes (**Sports**, **Standard**, or **Movie**) and then change the color temperature mode, the picture mode automatically changes to **Preference**.

Selecting the lamp mode

You can select either the $\mbox{High Bright}$ or $\mbox{Low Power}$ lamp mode.

The **High Bright** mode is useful when additional picture brightness is desired (such as in a bright room).

Note: The Lamp Mode field will be grayed out for a while after the TV is turned on.

To select the lamp mode:

- **1** Press $\stackrel{\text{MENU}}{\bigcirc}$ and open the Video menu.
- 2 Highlight Picture Settings and press Im.
- **3** Highlight Advanced Picture Settings and press **(PP)**.
- 4 In the Lamp Mode field, select either High Bright or Low Power.

A	dvanced F	Picture Sett	ings	Mode: Pref	erence
	Dynamic Co	ontrast		High	
	Static Gam	ma	0	0	_
	Color Temperature Lamp Mode			Cool	
			•	High Bright	•
		Reset		Done	

5 To save the new settings, highlight **Done** and press (m). To revert to the factory defaults, highlight **Reset** and press (m).

Note: If you set the lamp mode to **Low Power**, each time you turn on the TV, the lamp will start out in **High Bright** mode but will switch to **Low Power** mode after a short period of time. You may notice a change in screen brightness when this happens. This is normal and is not a sign of malfunction.



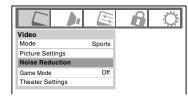
Chapter 7: Using the TV's advanced features

Using CableClear® digital noise reduction

The CableClear[®] digital noise reduction feature allows you to reduce visible interference in your TV picture. This may be useful when receiving a broadcast with a weak signal (especially a Cable channel) or playing a noisy video cassette or disc.

To change the CableClear settings:

- **1** Press $\overset{\text{MENU}}{\bigcirc}$ and open the **Video** menu.
- 2 Highlight Noise Reduction and press m.



3 In the **CableClear** field, select your desired setting.

Noise Reduction			ANT
CableClear	•	Auto	►
MPEG Noise Reduction		Low	
Reset		Done	

Note:

- If the current input is ANT, VIDEO 1, or VIDEO 2, the menu will display the text "CableClear." The available selections are Off, Auto, Low, Middle, and High.
- If the current input is ColorStream HD1, ColorStream HD2, HDMI 1, HDMI 2, or HDMI 3 the menu will display the text "DNR." The available selections are Off, Auto, Low, Middle, and High. Auto will react proportionally to the strength of the noise. Low, Middle, and High will reduce the noise in varying degrees, from lowest to highest, respectively.
- 4 To save the new settings, highlight Done and press m. To revert to the factory defaults, highlight Reset and press m.

Using MPEG noise reduction

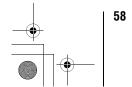
The MPEG noise reduction feature allows you to reduce visible interference caused by MPEG compression. Choices for MPEG noise reduction are **Off, Low, Middle**, and **High**. **Off** is automatically selected when this feature is disabled ("grayed out").

To select the MPEG noise reduction level:

- **1** Press \bigcirc^{MENU} and open the Video menu.
- 2 Highlight Noise Reduction and press m.
- 3 Press ▲ or ▼ to highlight the MPEG Noise Reduction field, and then press ◀ or ▶ to select either Off, Low, Middle or High.

N	oise Redu	ction			ANT
	CableClear			Auto	
	MPEG Nois	e Reduction	۹	Low	•
		Reset		Done	

4 To save the new settings, highlight Done and press m. To revert to the factory defaults, highlight Reset and press m.



Chapter 7: Using the TV's advanced features

Using the Game Mode feature

You can use the Game Mode feature for shorter frame delays when playing a video game requiring split-second timing between the on-screen display and input from the controller (such as music creation and high-action games).

This feature is more effective for 480i and 1080i input signals.

Note: To use the Game Mode feature, the current video input must be Video 1, Video 2, ColorStream HD1, ColorStream HD2, HDMI 1, HDMI 2, or HDMI 3. The Game Mode cannot be turned on when any other video input is selected.

To turn on Game Mode:

- **1** Press O and open the **Video** menu.
- **2** Press \blacktriangle or \checkmark to highlight the **Game Mode** field, and then press \triangleleft or \triangleright to select **On**.



To turn off Game Mode:

Select **Off** in step 2 above, change the video input, or turn the TV off and then on again.

Note: You can change the video input by pressing im on the remote control (im page 37).

Using the advanced audio settings features

Using the SRS WOW $^{\rm M}$ surround sound feature

SRS WOW[™] is a special combination of SRS Labs audio technologies (SRS 3D, SRS Focus, and SRS TruBass) that creates a thrilling surround sound experience with deep, rich bass from stereo sound sources. Your TV's audio will sound fuller, richer, and wider.

To adjust the WOW[™] settings:

- 1 Put the TV in **STEREO** mode (rew "Selecting stereo/SAP broadcasts" on page 47).
- 2 Press ^{MENU} and open the **Audio** menu.
- 3 Highlight Advanced Audio Settings and press Im.
- 4 Press ▼ or ▲ to highlight the WOW feature you want to adjust, and then press ◀ or ▶ to adjust the item.

ŀ	Advanced Audio Settings					
	WOW: SRS 3D		Off			
	WOW: SRS Focus		Off			
	WOW: SRS TruBass		Low			
	Re	set	Done			

• WOW: SRS 3D — To turn the surround sound effect **On** or **Off**.

Note: If the broadcast is monaural, the SRS 3D effect will not work.

- WOW: SRS Focus To turn the vocal emphasis effect **On** or **Off**.
- WOW: SRS TruBass To select the desired bass expansion level (Off, Low, or High).
- 5 To save the new settings, highlight **Done** and press (m). To revert to the factory defaults, highlight **Reset** and press (m).

WOW, SRS and (•) symbol are trademarks of SRS Labs, Inc. WOW technology is incorporated under license from SRS Labs, Inc.

Chapter 8: Troubleshooting

General troubleshooting

Before calling a service technician, please check this chapter for a possible cause of the problem and some solutions you can try.

Black box on-screen

 The closed caption feature is set to one of the Text modes (T1, T2, T3, or T4). Set the closed caption feature to Off (IS) page 45).

TV stops responding to controls

• If the TV stops responding to the controls on the remote control or TV control panel and you cannot turn off the TV, press and hold the **POWER** button on the TV control panel for 5 or more seconds to reset the TV.

Other problems

 If your TV's problem is not addressed in this Troubleshooting section or the recommended solution has not worked, use the Restore Factory Defaults procedure (Ing page 36).

TV will not turn on

- Make sure the power cord is plugged in, and then press
 POWER
 O
- The remote control batteries may be dead. Replace the batteries or try the control panel buttons.
- If you have recently replaced the lamp unit, make sure the lamp unit and lamp unit door are installed properly (ps pages 63–65).
- The lamp unit may need to be replaced (15 pages 63–65). Also see "LED indications" (15 page 62).
- If the TV is powered off and then quickly on again when the lamp unit is hot, it may take several minutes for the picture to appear on-screen. This is a property of DLP[®] TV lamp technology and is NOT a sign of malfunction. For details, see "IMPORTANT NOTICE ABOUT HOT LAMP RESTART" (INF) page 6).

Picture problems

General picture problems

- Check the antenna/cable connections (I Chapter 2).
- Press (m) on the remote control or TV and select a valid video input source (r page 37). If no device is connected to a particular input on the TV, no picture will display when you select that particular input source. For device connection details, see Chapter 2.
- Antenna reception may be poor. Use a highly directional outdoor antenna (if applicable).
- The station may have broadcast difficulties. Try another channel.
- Adjust the picture qualities (r page 44).
- If you are using a VCR, make sure <u>twee</u> on the remote control is set correctly (rs page 24).
- Do not connect both a standard video cable and an S-video cable to the VIDEO 2 input at the same time (IS) page 15).

Noisy picture

 If you are watching an analog channel (off-air broadcast or Cable TV), you can set the CableClear®/DNR feature to AUTO to reduce visible interference in the TV picture (rs page 58).

Video Input Selection problems

- If the **Input Selection** window does not appear when you press (F) on the remote control or TV, press (F) a second time, which will change to the next video input source and display the **Input Selection** window.
- Cannot view external signals or channel 3 or 4
 - If you cannot view signals from external devices connected to VIDEO 1, VIDEO 2, ColorStream®, HDMI 1, HDMI 2, HDMI 3, PC, or from channels 3 or 4, make sure the Input Lock is set to Off (rs page 52).

Poor color or no color

- The station may have broadcast difficulties. Try another channel.
- Adjust the Tint and/or Color (r page 44).

Picture brightness changes soon after turning on TV

If you set the lamp mode to Low Power, each time you turn on the TV, the lamp will start out in High Bright mode but will switch to Low Power mode after a short period of time. You may notice a change in screen brightness when this happens. This is normal and is not a sign of malfunction (rs page 57).

Poor composite or S-video picture

 If the TV is connected to an external A/V device (e.g., DVD player, video game system, set-top box, etc.) try using a **ColorStream** or **HDMI** video connection instead.

Picture and sound are out of sync

- As with all products that contain a digital display, in rare instances, when viewing certain content (e.g., television broadcasts, video games, DVDs), you may notice that the sound and picture are slightly out of sync. This phenomenon can be caused by various factors including, without limitation, video processing within the TV, video processing in an attached gaming system, and video processing or different compression rates used by broadcasters in their programming. You may want to try one or more of the following suggestions, which may help to reduce the effect of this phenomenon:
 - If the TV is connected to an A/V receiver that has a programmable audio delay feature, use this feature to help synchronize the sound to the picture.
 - If you notice this phenomenon only on certain TV channels, please contact your local broadcast, cable, or satellite provider to inform them of this issue.

LED indications while in reboot from standby

• When you plug the power cord in, the yellow LED will blink until the TV enters standby mode, (plugged in but not powered on). This is normal and is not a sign of malfunction.

Sound problems

- Check the antenna/cable connections (r Chapter 2).
- The station may have broadcast difficulties. Try another channel.

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Chapter 8: Troubleshooting

- The sound may be muted. Press VOLUME.
- If you hear no sound, try setting the **MTS** feature to **Stereo** mode (**r** page 47).
- If you are not receiving a second audio program from a known SAP source, make sure the MTS feature is set to SAP mode (In page 47).
- If you hear audio that seems "incorrect" for the program you are watching (such as music or a foreign language), the SAP mode may be on. Set the MTS feature to Stereo mode (IS) page 47).
- When using an external audio amplifier, if you connect the amplifier to the FIXED AUDIO OUT terminals, the volume of the amplifier must be set above 0 or you will not hear any sound (IS page 20).

Remote control problems

- Make sure the remote control is set to the correct device mode (ps page 23).
- Remove all obstructions between the remote control and the TV.
- The remote control batteries may be dead. Replace the batteries (INST page 22).
- Your TV remote control may not operate certain features on your external device. Refer to the owner's manual for your other device to determine its available features. If your TV remote control does not operate a specific feature on another device, use the remote control that came with the device (ISS pages 24–28).
- If the TV still does not act as expected, use the Reset Factory Defaults procedure (13) page 36).

Channel tuning problems

- Make sure the remote control is set to the correct device mode (13) page 23).
- The channel may have been erased from the channel memory by the Channel Add/Delete feature. Add the channel to the channel memory (13) page 32).
- The channel may be blocked by the **Channels Block** feature. Unblock the channel (1) page 51).
- If you are unable to tune digital channels, check the antenna configuration (r page 31). If you are still unable to tune digital channels, clear all channels from the channel list (r page 33) and reprogram channels into the channel memory (r page 32). If you are still unable to tune digital channels, use the Reset Factory Defaults procedure (r page 36). Also see "TV stops responding to controls" and "Other problems" (r page 60).

Closed caption problems

- If the program or video you selected is not closedcaptioned, no captions will display (1) page 45).
- If text is not available, a black rectangle may appear. If this happens, turn off the closed caption feature (page 45).
- A closed-caption signal may not display correctly in the following situations: a) when a videotape has been dubbed; b) when the signal reception is weak; or c) when the signal reception is nonstandard (propage 45).

Rating blocking (V-Chip) problems

- If you forget your PIN code: While the PIN code entering screen is displayed, press Call four times within 5 seconds. The PIN code you previously stored will be cleared (INF page 49).
- The V-Chip feature is available for the U.S. V-Chip system only (rss page 50).

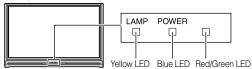
Chapter 8: Troubleshooting

LED indications

The yellow, blue, and red/green LED lights on the TV (at the bottom center of the TV) indicate the TV's status, as described below.

Note: If the TV loses A/C power (e.g., a power outage occurs or the power cord is unplugged), when power is restored, the yellow LED will blink while the TV is booting until the remote control is usable. This is normal and is not a sign of malfunction.

TV front



"Voice announce" feature

When certain non-standard conditions occur, the LEDs on the TV will blink and the TV will play a recorded "voice announcement" describing the condition (see the table below for the specific conditions that include a voice announcement). To repeat the voice announcement and hear additional information, press the MENU button on the TV while the LEDs are blinking.

	LED Indication Condition		Solution	Voice Announce
1) E	Blue is ON (solid).	The TV is operating properly.	-	-
2) (Green is ON (solid).	Power-On Mode Fast.	See "Setting the Power-On Mode feature" (🖙 page	
3) \	fellow blinks.	Standby with Power-On Mode Fast.	35).	-
	Blue is ON (solid). Yellow blinks.	The lamp is not working properly.	The TV will automatically try to restart itself eight times (see item #5).	
			Note: If the TV is powered off and then quickly on again when the lamp unit is hot, it may take several minutes for the picture to appear on-screen. This is a property of DLP® TV lamp technology and is NOT a sign of malfunction. For details, see "Setting the Power-On Mode feature" and "IMPORTANT NOTICE ABOUT HOT LAMP RESTART" (IST page 35).	-
- /	/ellow is ON solid). Red blinks.	The lamp is not working properly after the eighth automatic restart (see item #3).	Turn the TV OFF and then ON again. If the problem persists, contact TACP Consumer Solutions at 1-800-631-3811 in the U.S. or TCL Customer Service at 1-800-268-3404 in Canada.	"Lamp not working"
	fellow is ON solid).	The lamp unit door is not seated properly.	Turn OFF the TV and unplug the power cord. Review "Lamp unit replacement and care" in Chapter 9 to ensure that the lamp door is installed securely.	"Lamp door is open."
7) F	Red blinks.	Fan stopped.		"Fan stopped."
,	Blue blinks slowly. Red blinks.	Abnormal operation of BUS line. (light engine).		-
9) E	Blue blinks slowly.	Abnormal operation of BUS line.	Turn OFF the TV and unplug the power cord. Plug the power cord in again and turn ON the TV.	-
10)Blue blinks quickly.		Power Protect Detection.		_
	Blue blinks quickly. Red blinks.	The color wheel has stopped.		"Color wheel stopped."
Ý	Blue blinks quickly. Yellow blinks. Red blinks.	An abnormal temperature increase has occurred.	Turn OFF the TV. Check to make sure none of the slots or openings in the TV cabinet are covered, blocked, or dusty. Turn ON the TV again.	"Temperature warning."

If, after trying the solution, the problem still exists:

• In the U.S., call TACP Consumer Solutions at 1-800-631-3811.

• In Canada, locate the nearest Toshiba authorized service depot by directing your web browser to **www.toshiba.ca**; click "Home Entertainment," and then click "Support."

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Lamp unit replacement and care

Replacing the lamp unit (User-replaceable component)

WARNING: RISK OF ELECTRIC Shock!

TO REDUCE THE RISK OF ELECTRIC SHOCK, NEVER REMOVE TV COVERS, EXCEPT AS SPECIFIED HEREIN. REFER ALL SERVICING NOT SPECIFIED IN THIS MANUAL TO QUALIFIED SERVICE PERSONNEL. Failure to follow this WARNING may result in death or serious injury.

The light source for this TV is a mercury lamp with internal atmospheric pressure that increases during use. The lamp has a limited service life that varies depending on product use and user settings.

As is generally the case with all projection TVs that use projection lamps as a light source, the brightness of the lamp in this TV may vary somewhat over the expected service life and will generally decrease over time. Because of the many variables that can affect the useful service life of the lamp, your experience may vary from other users.

Note : The lamp is warranted only for the periods and to the extent set forth in the Limited Warranty applicable to this set. See "Limited United States Warranty" (res page 67) or "Limited Canadian Warranty" (res page 68), as applicable.

If you use the lamp beyond its service life:

- you may notice a reduction in the colors and/or brightness of the picture; and
- the strength of the quartz glass in the lamp will be reduced and the lamp may rupture (often making a loud noise when this happens). If the lamp ruptures, the TV will not operate until the lamp unit is replaced.

CAUTION: Always handle the lamp unit with care.

The lamp unit in this TV was designed for safe replacement by consumers; however, if the lamp unit is subjected to intentional abuse (such as excessive mechanical abuse or handling by children or pets), the unit may break, exposing sharp edges or pinch points.

When to replace the lamp unit

You should replace the lamp unit:

- if the picture darkens and/or colors fade;
- if the screen (lamp) does not light (LED indication #4, rs page 62); or
- if you hear a loud noise and the picture goes black, which may indicate a lamp rupture (LED indication #4,
 r page 62).

To obtain a replacement lamp unit:

	In the U.S.
In warranty:	Visit www.tacp.toshiba.com/service or call toll-free 1-800-631-3811.
Out of	Visit www.ceaccessories.toshiba.com or

warranty: consult your consumer electronics dealer.

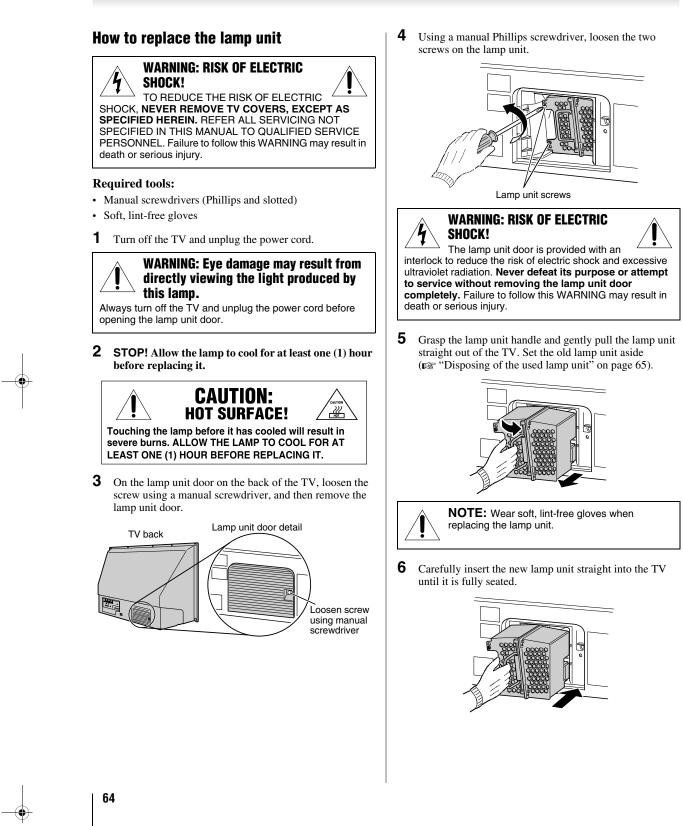
In Canada

Locate a Toshiba parts distributor by visiting **www.toshiba.ca.** Click "Home Entertainment" and then click "Support."

Always replace the lamp unit with the model currently recommended by Toshiba.

For more information, please contact us at the telephone numbers or websites listed above, as applicable.

Using any lamp other than those recommended by Toshiba may cause damage to the TV and/or lamp. SUCH DAMAGE IS NOT COVERED UNDER YOUR TOSHIBA WARRANTY.



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Note:

- Never subject the lamp unit to excessive shock.
- Never touch the lamp unit glass or otherwise get it dirty. Doing so may affect the image quality and reduce the service life of the lamp. See "Cleaning the lamp unit glass" below.

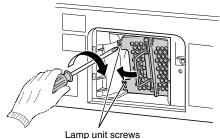
CLEANING THE LAMP UNIT GLASS

If you accidentally touch the lamp unit glass or otherwise get it dirty, wipe it with a lint-free lens cleaning cloth (such as a cloth for cleaning camera lenses or eyeglasses).

CAUTION: NEVER clean a hot lamp with any type of flammable liquid or aerosol cleaning agent. Many ordinary cleaning agents (such as glass cleaners) contain chemicals that may be flammable at certain temperatures. If the lamp unit is not allowed to cool for at least one (1) hour, such chemicals may ignite.

7 Using a manual Phillips screwdriver, tighten the two lamp unit screws.

Note: Hand-tighten only. Do not use an electric screwdriver.

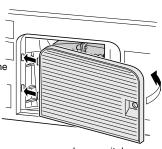


(use manual Phillips screwdriver only)

NOTE : Make sure the lamp unit and screws are installed securely; otherwise, the TV may not turn on and the lamp life may be shortened.

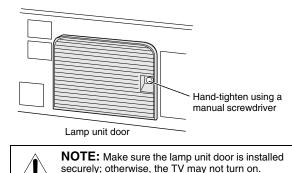
8 Reattach the lamp unit door, making sure to insert the hooks on the left side of the lamp unit door inside the opening in the TV cabinet.

Insert the hooks inside the TV cabinet opening.



Lamp unit door

9 Replace the screw and tighten using a manual screwdriver.



- **10** Plug in the power cord and turn on the TV. After the initial warmup period (which may take several seconds for full picture brightness), the TV should operate normally. If any of the following conditions exist, turn off the TV, unplug the power cord, and repeat steps 1-9 to ensure that the lamp unit and lamp unit door are installed correctly:
 - No picture
 - · Dark picture
 - TV will not turn on
 - If, after repeating steps 1–9, the problem still exists:
 - In the U.S., call TACP Consumer Solutions at 1-800-631-3811.
 - In Canada, locate the nearest Toshiba authorized service depot by directing your web browser to www.toshiba.ca; click "Home Entertainment," and then click "Support."

Disposing of the used lamp unit

- Place the used lamp unit in the empty box from the new unit.
- Keep the lamp unit out of reach of children and pets.

CAUTION: Always handle the lamp unit with care.

The lamp unit in this TV was designed for safe replacement by consumers; however, if the lamp unit is subjected to intentional or accidental abuse (such as excessive mechanical abuse or handling by children or pets), the unit may break, exposing sharp edges or pinch points.

Dispose of the used lamp unit by the approved method for vour area.



NOTE: The lamp unit contains mercury. Disposal of mercury may be regulated due to environmental considerations. For disposal or recycling information, contact your local authorities or the Electronic Industries Alliance (www.eiae.org).

Specifications

Note:

- This model complies with the specifications listed below.
- Designs and specifications are subject to change without notice.
- This model may not be compatible with features and/or specifications that may be added in the future.

Television System

NTSC standard ATSC standard (8VSB) Digital Cable (64 QAM, 256 QAM; in-the-clear, unencrypted)

Channel Coverage

VHF: 2 through 13 UHF: 14 through 69 Cable TV: Mid band (A-8 through A-1, A through I) Super band (J through W) Hyper band (AA through ZZ, AAA, BBB) Ultra band (65 through 94, 100 through 135)

Power Source

120 V AC, 60 Hz

Power Consumption

57/65HM117: 205 W (average) Less than 1 W in standby POWER-SAVING MODE 15 W in standby POWER-FAST MODE

Audio Power

10 W + 10 W

Speaker Type

Main: Two $2-3/8 \times 4-3/4$ inches (60 × 120 mm) round Tweeter: Two 1-5/16 inches (33 mm) round

Video/Audio Terminals

S-VIDEO INPUT:

Y: 1 V(p-p), 75 ohm, negative sync. C: 0.286 V(p-p) (burst signal), 75 ohm

VIDEO/AUDIO INPUT:

VIDEO: 1 V(p-p), 75 ohm, negative sync. AUDIO: 150 mV(rms) (30% modulation equivalent, 22 k ohm or greater)

ColorStream® (component video) HD INPUT:

VIDEO:Y: 1V(p-p), 75 ohm PR: 0.7 V(p-p), 75 ohm PB: 0.7 V(p-p), 75 ohm Suggested formats: 1080i, 720p, 480p, 480i AUDIO: 150 mV(rms), 22 k ohm or greater

HDMI™ INPUT:

HDMI compliant (type A connector) HDCP compliant

E-EDID* compliant

Suggested formats: 1080p (24/60Hz), 1080i (60Hz), 720p (60Hz), 480p (60Hz), 480i (60Hz), VGA HDMI Audio: 2-channel L-PCM; 32/44.1/48 kHz

sampling frequency; 16/20/24 bits per sample FIXED AUDIO OUTPUT:

150 mm (mm -) (200/ mm - dul

150 mv (rms) (30% modulation equivalent, 2.2 k ohm or less)

DIGITAL AUDIO OUTPUT:

Optical type

IR OUT:

3 V(p-p), 3.5 mm mono socket

PC INPUT:

15-Pin D-sub Analog RGB

Pin No.	Signal name	Pin No.	Signal name
1	R	9	NC
2	G	10	Ground
3	В	11	NC
4	NC (Not connected)	12	NC
5	NC	13	H-sync
6	Ground	14	V-sync
7	Ground	15	NC
8	Ground		

Dimensions

57HM117: Width: 52-3/8 inches (1,331 mm) Height: 33-3/4 inches (857 mm) Depth: 18-3/4 inches (476 mm) 65HM117: Width: 58 inches (1,473 mm) Height: 37-1/8 inches (942 mm) Depth: 21-11/16 inches (550 mm)

Mass (weight)

57HM117: 72.0 lbs (32.6 kg) 65HM117: 83.0 lbs (37.6 kg)

Operating conditions

Temperature: 41°F - 95°F (5°C - 35°C) Humidity: 20 - 80% (no moisture condensation)

Supplied Accessories

- · Remote control with two size "AAA" batteries
- Owner's manual (this book)
- TV stand
 - 57HM117 (VF0A0000280) 65HM117 (VF0A0000270)

* E-EDID = Enhanced-Extended Display Identification

Limited United States Warranty

for DLP® Television Models

Toshiba America Consumer Products, L.L.C. ("TACP") makes the following limited warranties to original consumers in the United States.

THESE LIMITED WARRANTIES EXTEND TO THE ORIGINAL CONSUMER PURCHASER OR ANY PERSON RECEIVING THIS DLP® TELEVISION AS A GIFT FROM THE ORIGINAL CONSUMER PURCHASER AND TO NO OTHER PURCHASER OR TRANSFEREE.

DLP® TELEVISIONS PURCHASED IN THE U.S.A. AND USED ANYWHERE OUTSIDE OF THE U.S.A., INCLUDING, WITHOUT LIMITATION, CANADA AND MEXICO, ARE NOT COVERED BY THESE WARRANTIES.

DLP® TELEVISIONS PURCHASED ANYWHERE OUTSIDE OF THE U.S.A., INCLUDING, WITHOUT LIMITATION, CANADA AND MEXICO, AND USED IN THE U.S.A., ARE NOT COVERED BY THESE WARRANTIES.

Limited One (1) Year Warranty on Parts and Labor

TACP warrants this DLP® Television and its parts against defects in materials or workmanship for a period of one (1) year after the date of original retail purchase. DURING THIS PERIOD, TACP WILL, AT TACP'S OPTION, REPAIR OR REPLACE A DEFECTIVE PART WITH A NEW OR REFURBISHED PART WITHOUT CHARGE TO YOU FOR PARTS OR LABOR. During this period, TACP Authorized Service Station personnel will come to your home when warranty service is required. Depending on the type of repair required, the service will either be performed in your home or the DLP® Television will be taken to a TACP Authorized Service Station for repair and returned to your home at no cost to you.

Limited One (1) Year Warranty on Lamp Unit

TACP warrants the original lamp unit contained in this DLP® Television against defects in materials or workmanship for a period of one (1) year after the date of original retail purchase. DURING THIS PERIOD, TACP WILL, AT TACP'S OPTION, EXCHANGE A DEFECTIVE LAMP UNIT WITH A NEW OR REFURBISHED LAMP UNIT WITHOUT CHARGE TO YOU. LABOR CHARGES FOR LAMP UNIT REPLACEMENT ARE YOUR RESPONSIBILITY AND ARE NOT COVERED UNDER THIS WARRANTY. The lamp unit is a user-replaceable component.

Rental Units

The warranty for DLP® Television rental units begins on the date of the first rental or thirty (30) days after the date of shipment to the rental firm, whichever comes first.

Limited Warranty for Commercial Units

TACP warrants DLP® Televisions, including the lamp units contained therein, that are sold and used for commercial purposes as follows: all parts are warranted against defects in materials or workmanship for a period of ninety (90) days after the date of original retail purchase. DURING THIS PERIOD, TACP WILL, AT TACP'S OPTION, REPAIR OR REPLACE A DEFECTIVE PART WITH A NEW OR REFURBISHED PART WITHOUT CHARGE TO YOU.

Owner's Manual and Product Registration Card

Read this owner's manual thoroughly before operating this DLP® Television.

Complete and mail the enclosed product registration card or register your DLP® Television online at **www.tacp.toshiba.com/service** as soon as possible. By registering your DLP® Television you will enable TACP to bring you new products specifically designed to meet your needs and help us to contact you in the unlikely event a safety notification is required under the U.S. Consumer Product Safety Act. Failure to complete and return the product registration card does not diminish your warranty rights.

Your Responsibility

THE ABOVE WARRANTIES ARE SUBJECT TO THE FOLLOWING CONDITIONS:

- (1) You must retain your original bill of sale or provide other proof of purchase.
- (2) All warranty servicing of this DLP[®] Television must be performed by an Authorized TACP Service Station.
- (3) The warranties from TACP are effective only if this DLP[®] Television is purchased and operated in the Continental U.S.A. or Puerto Rico.
- (4) Labor service charges for set installation, setup, adjustment of customer controls, and installation or repair of antenna systems are not covered by this warranty. Reception problems caused by inadequate antenna systems, misaligned satellite dishes, cable television distribution, VCRs, DVD players/recorders, personal computer level IEEE 1394 devices, and any other connected signal source device are your responsibility.
- (5) Warranties extend only to defects in materials or workmanship as limited above, and do not extend to any DLP® Television or parts that have been lost or discarded by you or to damage to the DLP® Television or parts caused by fires, misuse, accident, Acts of God (such as lightning or fluctuations in electric power), improper installation, improper maintenance, or use in violation of instructions furnished by TACP; use or malfunction through simultaneous use of this DLP® Television and connected equipment; or to units that have been modified or had the serial number removed, altered, defaced, or rendered illegible.

How to Obtain Warranty Service

If, after following all of the operating instructions in this manual and reviewing the section entitled "Troubleshooting," you find that service is needed:

- To find the nearest TACP Authorized Service Station, visit TACP's website at www.tacp.toshiba.com/service or contact TACP's Consumer Solution Center toll free at 1-800-631-3811.
- (2) You must present your original bill of sale or other proof of purchase to the TACP Authorized Service Station.

For additional information, visit TACP's website: www.tacp.toshiba.com.

ALL WARRANTIES IMPLIED BY THE LAW OF ANY STATE OF THE U.S.A., INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE EXPRESSLY LIMITED TO THE DURATION OF THE LIMITED WARRANTIES SET FORTH ABOVE. WITH THE EXCEPTION OF ANY WARRANTIES IMPLIED BY THE LAW OF ANY STATE OF THE U.S.A. AS HEREBY LIMITED, THE FOREGOING WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, GUARANTEES, AGREEMENTS, AND SIMILAR OBLIGATIONS OF TACP WITH RESPECT TO THE REPAIR OR REPLACEMENT OF ANY PARTS. IN NO EVENT SHALL TACP BE LIABLE FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, LOST PROFITS, BUSINESS INTERRUPTION, OR MODIFICATION OR ERASURE OF RECORDED DATA CAUSED BY USE, MISUSE OR INABILITY TO USE THIS DLP® TELEVISION).

No person, agent, distributor, dealer, or company is authorized to change, modify, or extend the terms of these warranties in any manner whatsoever. The time within which an action must be commenced to enforce any obligation of TACP arising under the warranty or under any statute or law of the United States or any state thereof is hereby limited to ninety (90) days from the date you discover, or should have discovered, the defect. This limitation does not apply to implied warranties arising under the law of any state of the U.S.A.

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH MAY VARY FROM STATE TO STATE IN THE U.S.A. SOME STATES OF THE U.S.A. DO NOT ALLOW LIMITATIONS ON THE DURATION OF AN IMPLIED WARRANTY, WHEN AN ACTION MAY BE BROUGHT, OR THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES. THEREFORE, THE ABOVE PROVISIONS MAY NOT APPLY TO YOU UNDER SUCH CIRCUMSTANCES. 05

Limited Canadian Warranty

for Toshiba Brand DLP® Television Models

Toshiba of Canada Limited ("TCL") makes the following limited warranties to original consumers in Canada. THESE LIMITED WARRANTIES EXTEND TO THE ORIGINAL CONSUMER PURCHASER OR ANY PERSON RECEIVING THIS TOSHIBA BRAND DLP® TELEVISION MODEL (the "TELEVISION(S)" or "Television(s)") AS A GIFT FROM THE ORIGINAL CONSUMER PURCHASER AND TO NO OTHER PURCHASER OR TRANSFEREE.

TELEVISIONS PURCHASED IN CANADA, AND USED ANYWHERE OUTSIDE OF CANADA INCLUDING, WITHOUT LIMITATION, THE UNITED STATES AND MEXICO, ARE NOT COVERED BY THESE WARRANTIES.

TELEVISIONS PURCHASED ANYWHERE OUTSIDE OF CANADA, INCLUDING, WITHOUT LIMITATION, THE UNITED STATES AND MEXICO, AND USED IN CANADA, ARE NOT COVERED BY THESE WARRANTIES.

Limited One (1) Year Warranty on Parts and Labour

Subject to the more limited warranty if the Television is used for any commercial or business purposes as set out below, TCL warrants the Television and its parts, excluding the lamp unit, against material defects in materials or workmanship that result in the Television failing for a period of one (1) year after the date of original retail purchase. DURING THIS PERIOD, TCL WILL, AT TCL'S OPTION, REPAIR OR REPLACE A DEFECTIVE PART WITH A NEW OR REFURBISHED PART WITHOUT CHARGE TO YOU FOR PARTS OR LABOR. During this period, TCL Television authorized service provider ("ASP") personnel will come to your home when warranty service is required. Depending on the type of repair required, the service will either be performed in your home or the Television will be taken to an ASP for repair and returned to your home at no cost to you. IN-HOME SERVICE ONLY APPLIES WITHIN 100 KILOMETERS OF AN ASP. IF YOU ARE NOT WITHIN 100 KILOMETERS OF AN ASP, YOU MUST DELIVER THE ENTIRE TELEVISION TO AN ASP. YOU MUST PAY FOR ALL TRANSPORTATION AND INSURANCE CHARGES FOR THE TELEVISION TO AND FROM THE ASP

Limited One (1) Year Warranty on the Lamp Unit

TCL warrants the lamp unit in this Television against material defects in materials or workmanship for a period of one (1) year after the date of original retail purchase. DURING THIS PERIOD, TCL WILL, AT TCL'S OPTION, REPAIR OR REPLACE THE DEFECTIVE LAMP UNIT WITH A NEW OR REFURBISHED LAMP UNIT WITHOUT CHARGE TO YOU FOR THE LAMP UNIT. YOU MUST DELIVER THE ENTIRE LAMP UNIT TO AN ASP. YOU MUST PAY FOR ALL TRANSPORTATION AND INSURANCE CHARGES FOR THE LAMP UNIT TO AND FROM THE ASP.

Limited Warranty for Commercial Units

TCL warrants Televisions that are used for any commercial or business purposes as follows: all parts are warranted against material defects in materials or workmanship that result in the Television failing for a period of ninety (90) days after the date of original retail purchase. DURING THIS PERIOD, TCL WILL, AT TCL'S OPTION, REPAIR OR REPLACE THE DEFECTIVE PART WITH A NEW OR REFURBISHED PART WITHOUT CHARGE TO YOU. ON-SITE SERVICE ONLY APPLIES WITHIN 100 KILOMETERS OF AN ASP. IF YOU ARE NOT WITHIN 100 KILOMETERS OF AN ASP, YOU MUST DELIVER THE ENTIRE TELEVISION TO AN ASP. YOU MUST PAY FOR ALL TRANSPORTATION AND INSURANCE CHARGES FOR THE TELEVISION TO AND FROM THE ASP.

Rental Units

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The warranty for Television rental units begins with the date of first rental or thirty (30) days from the date of shipment to the rental firm, whichever comes first.

Your Responsibility

THE ABOVE WARRANTIES ARE SUBJECT TO THE FOLLOWING CONDITIONS:

- (1) You must provide your bill of sale or other proof of purchase.
- All warranty servicing of this Television must be performed by an ASP.
 The warranties from TCL are effective only if the Television is (i) purchased as new and unopened from TCL or from TCL's authorized distributors, dealers or resellers ("**ADR's**") and (ii) located/operated in Canada.
- (4) Labour charges for set installation, setup, adjustment of customer controls, and installation or repair of antenna systems are not covered by these warranties. Reception problems caused by inadequate antenna systems are your responsibility.
- (5) Warranties extend only to material defects in materials or workmanship as limited above, and do not extend to:
 - a) Service, repairs or replacement made necessary by accident, misuse, abuse, moisture, liquids, dust, dirt, neglect, accident, damage, 24/7 applications, improper installation, improper operation, improper cleaning, improper maintenance, normal wear and tear, or any other external cause or event, act or omission outside the control of TCL, including fire, theft, acts of God, alteration, power failures, power surges or power shortages, lightning, other electrical faults, or repairs, modifications or replacements by persons other than those authorized by TCL to service the Television;
 - Replacement of missing, discarded or lost parts, the provision of retrofits, or preventive maintenance;
 - c) Repair of damage that is cosmetic only or does not affect the Television functionality, such as wear and tear, scratches and dents;
 - d) Service on Toshiba-branded accessory items (such accessory items may be covered by their own warranty);
 - Service on third party products or service made necessary by use of incompatible third party products;
 - f) Service made necessary by the simultaneous use of this Television and connected equipment;
 - g) Modifications to the Television not approved in writing by TCL, and service made necessary by the use or installation of non-Toshiba modifications to the Television;
 - Service of a Television on which the TOSHIBA label or logo, rating label or serial number have been defaced or removed;
 - i) On-site service and repair of the Television; and
 - Damage to the Television caused by failure to follow the specifications, User manuals or guides as to usage and/or storage.

Disclaimer and Limitation of Remedy

TO THE EXTENT NOT PRECLUDED BY LAW, ALL OTHER EXPRESS AND IMPLIED WARRANTIES, CONDITIONS AND REPRESENTATIONS FOR THIS TELEVISION, INCLUDING THE IMPLIED WARRANTIES, CONDITIONS AND REPRESENTATIONS OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE HEREBY DISCLAIMED AND EXCLUDED. IF THE APPLICABLE LAW, STATUTORY OR OTHERWISE, PRECLUDES THE EXCLUSION OF ANY IMPLIED WARRANTIES, CONDITIONS AND REPRESENTATIONS THEN SUCH IMPLIED WARRANTIES, CONDITIONS AND REPRESENTATIONS ARE OTHERWISE LIMITED IN DURATION TO THE TERM OF THIS EXPRESS WRITTEN LIMITED WARRANTY. TO THE EXTENT NOT PRECLUDED BY LAW, STATUTORY OR OTHERWISE, THIS WRITTEN WARRANTY SUPERCEDES AND SPECIFICALLY DISCLAIMS ANY OTHER WARRANTY, CONDITION OR REPRESENTATION NOT STATED IN THIS WARRANTY, WHETHER MADE BY TCL, TOSHIBA CORPORATION, THEIR AFFILIATES, ADRs AND ASPs AND WHETHER MADE ORALLY OR IN WRITING (INCLUDING ANY STATEMENT IN ANY BROCHURE, PRESS RELEASE ANNOUNCEMENT, ADVERTISEMENT, POINT OF SALE DISPLAY. ETC.).

YOU MUST READ AND FOLLOW ALL SET-UP AND USAGE INSTRUCTIONS IN THE APPLICABLE USER GUIDES AND/OR MANUALS. IF YOU FAIL TO DO SO, THIS TELEVISION MAY NOT FUNCTION PROPERLY AND YOU MAY SUFFER DAMAGE. THIS WARRANTY WILL NOT COVER ANY SERVICE THAT IS REQUIRED, IN PART OR IN WHOLE, AS A RESULT OF ANY FAILURE TO FOLLOW THE SET-UP AND USAGE INSTRUCTIONS. THIS WARRANTY DOES NOT APPLY AND SHALL BE VOID AND UNENFORCEABLE IF THE TELEVISION IS OPENED, SERVICED, OR REPAIRED BY PERSONS OTHER THAN THOSE AUTHORIZED BY TCL TO SERVICE OR REPAIR THE TELEVISION.

IF THE TELEVISION FAILS TO WORK AS WARRANTED ABOVE, YOUR SOLE AND EXCLUSIVE REMEDY SHALL BE REPAIR OR REPLACEMENT OF THE DEFECTIVE PART. IN NO EVENT WILL TCL, TOSHIBA CORPORATION, THEIR AFFILIATES, ADRS OR ASPS (THE "RELATED PARTIES") BE LIABLE TO YOU OR ANY THIRD PARTY FOR ANY DAMAGES, MONEY, REIMBURSEMENT, COSTS OR EXPENSES. THIS LIMITATION APPLIES TO DAMAGES, MONEY, REIMBURSEMENT, COSTS OR EXPENSES OF ANY KIND WHATSOEVER INCLUDING ANY DIRECT OR INDIRECT DAMAGES, DAMAGE TO PROPERTY OR PERSON, LOST PROFITS, LOST SAVINGS, INCONVENIENCE OR OTHER SPECIAL, INCIDENTAL, EXEMPLARY OR CONSEQUENTIAL DAMAGES, WHETHER FOR BREACH OF WARRANTY, BREACH OF CONTRACT, TORT (INCLUDING NEGLIGENCE), UNDER A STATUTE OR UNDER ANY OTHER LAW OR FORM OR ACTION, OR WHETHER ARISING OUT OF THE USE OF OR INABILITY TO USE THE TELEVISION, EVEN IF ANY OF THE RELATED PARTIES HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES OR OF ANY CLAIM BY ANY OTHER PARTY.

No person, agent, distributor, dealer or company is authorized to change, modify or extend the terms of these warranties in any manner whatsoever.

Arbitration and Dispute Resolution

To the extent not precluded by law, any claim, dispute, controversy or disagreement (whether for breach of warranty, breach of contract, tort (including negligence), under a statute or under any other law or form of action) against any of the Related Parties arising out of, or otherwise relating to: (i) this warranty; (ii) the Television; (iii) any oral or written representations, statements, brochures, press releases, advertising, announcement, point of sale display, or promotional material relating to the Television; (iv) the relationships that result from this warranty, (the foregoing claims, disputes controversies and disagreements are collectively referred to as the "Dispute"), shall be referred to and resolved by final and binding arbitration (to the exclusion of the courts). To the extent not precluded by law, you agree to waive any right that you may have to commence or participate in any representative or class proceeding against the Related Parties relating to any Dispute. If and where applicable and to the extent not precluded by law, you further agree to opt out of any such representative or class proceedings. Arbitration of any Dispute will be conducted in the forum and in the manner as agreed to between you and TCL. Failing such agreement, the arbitration will be conducted by one arbitrator pursuant to the laws and rules relating to arbitration generally in force in the jurisdiction in which you reside at the time that the Dispute arises. To the extent not precluded by law, no claim, dispute, controversy or disagreement of any other person may be joined or combined with any Dispute by you, without the prior written consent of TCL.

Critical Applications

The Television you have purchased is not designed for any "critical applications." "Critical applications" means life support systems, medical applications, connections to implanted medical devices, commercial transportation, nuclear facilities or systems or any other applications where Television failure could lead to injury to persons or loss of life or catastrophic property damage.

IF THE CUSTOMER USES THE TELEVISION IN ANY CRITICAL APPLICATION, THE CUSTOMER - AND NOT TCL, ITS AFFILIATES, ADRS OR ASPS - ASSUME SOLE AND FULL RESPONSIBILITY FOR SUCH USE. TCL RESERVES THE RIGHT TO REFUSE TO SERVICE ANY TELEVISION USED IN A CRITICAL APPLICATION. TCL, ITS AFFILIATES, ADRS AND ASPS HEREBY DISCLAIM ANY AND ALL LIABILITY, DAMAGES AND CONSEQUENCES ARISING OUT OF THE SERVICE OR REFUSAL TO SERVICE SUCH TELEVISION AND FURTHER DISCLAIM ANY AND ALL LIABILITY, CONSEQUENCES AND DAMAGES THAT MAY ARISE OR RESULT FROM THE USE OF THE TELEVISION IN ANY CRITICAL APPLICATIONS.

General Provisions

If and to the extent that any provision of this limited warranty should generally be found to be unenforceable, the unenforceable provision shall be severed from the warranty and deemed not to form part of the warranty. The remaining provisions of this warranty shall be and remain valid and enforceable. If and to the extent that any provision of this limited warranty as it relates to any of the Related Parties is found to be invalid or unenforceable in respect of that party (the "Excluded Party"), the Excluded Party shall be deemed to be severed or excluded from the provision, and the provision shall remain valid, enforceable and applicable in respect of the other or remaining Related Parties.

To the extent permitted by law, this limited warranty shall be governed and construed in accordance with the laws of Ontario.

If there is any inconsistency between this limited warranty, on the one hand, and any statement in the packaging of the Television or in any other document enclosed with, or used in the context of the promotion or sale of, the Television, on the other hand, the provisions of this limited warranty shall prevail.

How to Obtain Warranty Services

If, after following all of the operating instructions in this manual and checking the "Troubleshooting" section, you find that service is needed:

- To find the nearest ASP, visit TCL's web site at www.toshiba.ca, or call toll free 1-800-268-3404
- (2) Present your bill of sale or other proof of purchase to the ASP.

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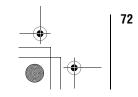
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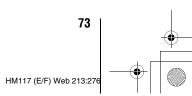


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